

V'YUSHKOV, P. P., nachal'nik ekspeditsii.

Observation of the total solar eclipse of June 30, 1954. Astron.
tsir. no.151:15-16 JI '54. (MLRA 8:3)

1. Kafedra astronomii Saratovskogo Gosuniversiteta imeni N.G.
Chernyshevskogo.
(Eclipses, Solar--1954)

VYUSHKOV, P. V.

AUTHOR: Vyushkov, P.V. and Ridel', Ye.A.

33-3-26/32

TITLE: A bolometric pyr heliometer for absolute measurements of direct solar radiation. (O Bolometricheskom pirgeliometre dlya absolyutnykh izmereniy pryamoy solnechnoy radiatsii)

PERIODICAL: "Astronomicheskii Zhurnal" (Journal of Astronomy), 1957, Vol. 34, No. 3, pp. 490-492 (U.S.S.R.)

ABSTRACT: A pyr heliometer based on the bolometric principle is described. Basically, it consists of an 0.05₂ mm thick copper ring having a receiving area of 0.5 to 1.0 cm², and a resistance of 10 Ω approx. The ring is blackened and absorbs approx. 98% of the incident radiation. The ring is included as one arm of a Wheatstone bridge, the other three arms being of known resistance. The ring is covered, balance is established in the bridge, and the current i_0 through the bolometer is measured. The ring is then exposed to radiation and balance is re-established by adjusting a rheostat in series with the driving battery (the arms of the bridge remaining unaltered). If the current through the ring is now i_r then it can easily be shown that the intensity of solar radiation I is given by:

Card 1/2

33-3-26/32

A bolometric pyrhelimeter for absolute measurements of direct solar radiation. (Cont.)

$$I = \frac{14.35r}{S\sigma} (i_T^2 - i_0^2)$$

where S is the exposed area and σ is the absorptivity. If $S\sigma$ is known, it is possible to determine I absolutely.

This pyrhelimeter has several advantages over Angstrom's compensated pyrhelimeter. In a series of experiments the latter instrument gave readings 1.4% lower (on the average) than the pyrhelimeter now reported.

There are 2 figures and 4 Slavic references.

ASSOCIATION: Saratov State University im. N.G. Chernyshevskogo.
(Saratovskiy Gos. Universitet im N.G.Chernyshevskogo)

SUBMITTED: December 3, 1956

AVAILABLE: Library of Congress

Card 2/2

ACCESSION NR: AP4040847

S/0033/64/041/003/0555/0558

AUTHOR: V'yushkov, P. V.; Sklyarov, Yu. A.

TITLE: A bolometric pyrhelimeter as a reference instrument for absolute measurements of direct solar radiation

SOURCE: Astronomicheskij zhurnal, v. 41, no. 3, 1964, 555-558

TOPIC TAGS: bolometric pyrhelimeter, micrometric screw, black body, radiation receiver, resistance power, instrumental error, angstrom pyrhelimeter

ABSTRACT: A new model of the Sklyarov bolometric pyrhelimeter has been designed in which all defects of the previous model have been eliminated. The receiver tube which contains the radiation receiver is mounted on a stand. The stand has micrometer screws and an aiming device. Behind the radiation receiver is a chamber which represents a model black body and absorbs the light passing through the receiver. The radiation receivers are made of different kinds of copper wires with various resistance power. The electrical part of the pyrhelimeter is located in a special box. Formulas are

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ACCESSION NR: AP4040847

developed for determining instrumental errors. The new model bolometric pyrhelometers were compared with the USSR standard No. 212 Ångström pyrhelometer. The agreement of results was good, which shows reliable reproducibility of their scales. The bolometric pyrhelometer has a number of advantages over the Ångström pyrhelometer. Orig. art. has: 1 table and 3 formulas.

ASSOCIATION: none

SUBMITTED: 23Sep63

ENCL: 00

SUB CODE: AA

NO REF SOV: 003

OTHER: 000

Card 2/2

V'YUSHKOVA, V. P.

V'YUSHKOVA, V. P. --"Intra-Species Grouping of *Adacna Vitrea* and *Monodacna Edentula* of the Northern Caspian." (Dissertations for Degrees in Science and Engineering Defended at USSR Higher Educational Institutions) Moscow Order of Lenin and Order of Labor Red Banner State U imeni M. V. Lomonosov, Moscow, 1955

SO: Knizhnaya Letopis', No. 25, 18 Jun 55

* For Degree of Candidate in Biological Sciences

V'YUSHKOVA, V.P.

Zooplankton of Volgograd Reservoir during the first years of its
existence, Vop. ekol. 5:30 '62. (MIRA 16:6)

1. Otdeleniye Gosudarstvennogo nauchno-issledovatel'skogo instituta
ozernogo i rechnogo rybnogo khozyaystva.
(Volgograd Reservoir—Zooplankton)

V.YUSHKOVA, V.P.

Growth of *Adacna vitrea* and *Monodacna edentula* in the Northern
Caspian. Vest.Mosk.un.Ser.biol., pochv., geol., geog. 13 no.3:35-41
' 58. (MIRA 12:1)

(Caspian Sea---Mollusks)

V'YUSOVA, Anna Konstantinovna; EVIN, Yakov Aronovich; ZYKOV, Nikolay Lukich;
MAGANOVA, N.A., red.; FURMAN, G.V., tekhn. red.

[Compiling and using regular price lists in public dining enterprises;
from the work practice of the restaurant trust of Kirov District,
Leningrad] Razrabotka i primeneniye preiskurantov postoianno deistvu-
iushchikh tsen v predpriatiakh obshchestvennogo pitaniya; iz opyta
raboty tresta stolovykh Kirovskogo raiona Leningrada. Moskva, Gos.
izd-vo torg. lit-ry, 1961. 21 p. (MIRA 14:8)
(Leningrad—Restaurants, lunchrooms, etc.—Prices)

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001961420014-3

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001961420014-3"

Uyvel'ko, I.G.

VYVAL'KO, I.G.; DUSHECHKIN, A.I. [deceased]; LUSHCHEVSKAYA, G.M.; MATKOVSKIY, K.I.; SAVINOV, B.G.; SHILOV, Ye.A.; YASNIKOV, A.A.

Mechanism of the biosynthesis of isoprene compounds. Part 2. Formation of carotene pigments in the leaves of kok-saghyz. Ukr. khim. zhur. 22 no.5:655-659 '56. (MLRA 10:6)

1. Institut organicheskoy khimii Akademii nauk USSR i Institut fiziologii rasteniy i agrokhimii Akademii nauk USSR.
(Carotene) (Kok-saghyz) (Biosynthesis)

L 02517-67 EWT(1)/EWP(e)/EWT(m)/I/EWP(t)/ETI/EWP(k) IJP(c) JD/WH/JG/WH
ACC NR: AP6023003 SOURCE CODE: UR/0185/66/011/004/0440/0441

95
92
8

AUTHOR: V'yuhov, P. N.; Humenyuk, V. S.

ORG: Physicotechnical Institute AN U.S.S.R, Kharkov (Fizyko-tekhnichyy instytut AN Ukr.SSR)

TITLE: The velocity of ultrasound in liquid aluminum 27

SOURCE: Ukrains'kyi fizichnyy zhurnal, v. 11, no. 4, 1966, 440-441

TOPIC TAGS: ultrasound, ultrasonic velocity, interferometer, aluminum, adiabatic compression, standing wave, nonferrous liquid metal, potentiometer/EPP-09 potentiometer

ABSTRACT: The authors study the speed of ultrasound in liquid aluminum as a function of temperature. All measurements were taken with a high-temperature interferometer consisting of a vertical tubular crucible with a rod made from the material to be studied. The rod is placed within the crucible and its lower part is water-cooled. An ultrasonic emitter is attached to the lower section of this rod. The upper part of the rod melts as the crucible is heated and a reflector is immersed in the melt. Standing waves are formed at the moment of melting and stress on the emitter varies. These variations are recorded on the EPP-09 electronic potentiometer. Both the crucible and the reflector are made from graphite during the first stage of the study, and from aluminum for the second stage. A chromel-alumel thermocouple was used for temperature measurement. The thermocouple was fixed in the frame of the reflector

Card 1/2

E 02517-67

ACC NR: AP6023003

3

approximately 1 mm from its surface. The rod specimens for the study were made from AV000 99.99% pure aluminum 20 mm in diameter and 400-450 mm long. The melt was maintained at a height of 60-120 mm depending on temperature. Once the reflector was immersed, it was left for the entire series of experiments to avoid formation of aluminum oxide. The speed of ultrasound at each temperature was determined by averaging 20-25 measurements. The results show that the speed of ultrasound in liquid aluminum is a linear function of temperature. Extrapolation shows a velocity approaching 4730 ± 25 m/sec at the melting point with a temperature coefficient approaching 0.16 m/sec·deg. The coefficient of adiabatic compression approaches $1.88 \cdot 10^{-12}$ cm²/dyne at the melting point, and $2.0 \cdot 10^{-12}$ cm²/dyne at 1000°C. The coefficient of adiabatic compression is a nearly linear function of temperature. The experimental data for AD1 aluminum agree with those for AV000. Orig. art. has: 1 figure.

SUB CODE: 20, 11/ SUBM DATE: 11Oct65/ ORIG REF: 003

Card

2/2

egh

on the strength of steel

samples. After heating 6-8 min at 840C, the samples were subjected to a periodic load and after the end of such (near-resonant) oscillations the samples were rapidly cooled by

Card 1/4

L 23444-65

①

ACCESSION NR: AT4049943

ASSOCIATION none

SUBMITTED 20Jun63

ENCL: 02

SUB CODE: MM

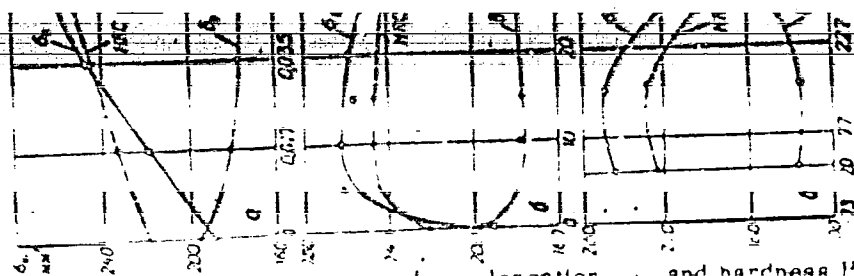
NO REF SOV: 005

OTHER: 003

I 23444-65

ACCESSION NR: AT4049049

ENCLOSURE: 01



The graph shows the relationship between elongation and hardness (HRC) for various materials. The curves represent different material types or conditions, with the horizontal axis indicating elongation and the vertical axis indicating hardness (HRC).

Card 34

L 23444-65

ENCLOSURE 02

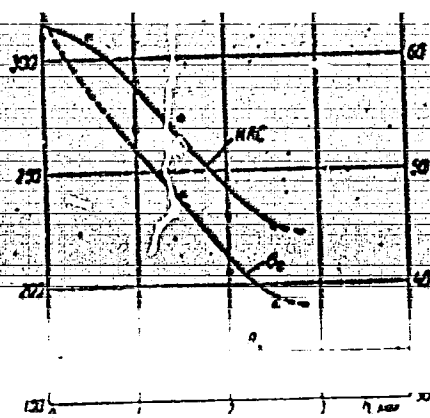


Fig. 2. Integral strength limit as function of the thickness of the removed layer in dan/mm²

Card 4/4

KOROTKIN, Isaak Moiseyevich; SLEPENKOV, Zakhar Fedorovich;
KOLYZAYEV, Boris Aleksandrovich; VYZVILKO, S.A., red.

[Aircraft carriers] Avianostsy. Moskva, Voenizdat,
1964. 274 p. (MIRA 17:12)

ROMANIV, O.N.; VIVALI, I.I.

Investigating the changes in endurance properties of 20 steel under
the action of cyclical torsion. Nauch.zap. IMA AN URSR. Ser. mashinoved.
10.134-142 '64. (MIRA 17:10)

ACCESSION NR: AP5010788

G. V. (Corresponding member AN SSSR)

TITLE: A new method of thermovibro-mechanical hardening of steel

Card 1/2

L 51533-65

ACCESSION NR: AP5010788

2

ROMANIV, O.S. [Romaniv, O.S.]; AYVAH, I.P.; KARPENKO, G.V. [Karpenko, G.V.]

Effect of the form factor and type of loads on the fatigue of metals. Dop. AN URSR no.8:1017-1020 '62.

(MIRA 13:2)

1. Institut mashinovedeniya i avtomatiki AN UkrSSR. 2. Chlen-korrespondent AN UkrSSR (for Karpenko).

L 1337-66 EWT(m)/EWP(w)/EWA(d)/T/EWP(t)/EWP(k)/EWP(z)/EWP(b)/EWA(c) MJW/JD/HM

ACCESSION NR: AP5022400

UR/0369/65/000/004/0449/0454

AUTHOR: Vyval', I. P.; Kavich, I. V.; Mikolaychuk, A. G.

51
27
B

TITLE: Thermomechanical working and structural changes in steels

SOURCE: Fiziko-khimicheskaya mekhanika materialov, no. 4, 1965, 449-454

TOPIC TAGS: steel structure, mechanical heat treatment, thermomechanical property

ABSTRACT: The effect of thermomechanical working on mechanical properties of 45-, 35Kh-, and 60S2 steel brands was studied at frequencies of torsional deformation varying from 0 to 5000 and torsion amplitudes varying from 0 to 1.105. The steel samples were heated to 840°-900°C, mechanically deformed, quenched in oil, and tempered for 2 hours at 150°-400°C. For all three steels, an increase in torsion amplitude resulted in a shift of the maximum mechanical strength and hardness toward smaller frequencies. The heat-vibration-treatment of the steel has little effect on its plasticity. Some loss in plasticity was observed at very high frequencies of torsional deformation. A maximum steel hardening resulted from tempering at 150°-200°C. The duration of tempering had little effect on steel strength. In the case of 35Kh/steel, within 840-900°C range, temperature of deformation does not af-

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L 1337-66

ACCESSION NR: AP5022400

4
fect the mechanical strength; however, use of higher temperature resulted in a gain in steel plasticity. The maximum mechanical strength resulting from this treatment is accompanied by some loss in density of martensite domains. Some increase in density of martensite domains occurs at torsional deformation frequencies greater than that corresponding to maximum mechanical strength. This is, however, accompanied by the appearance of an increasing number of microcracks in the steel. Orig. art. has: 3 figures, 2 tables, 4 formulas.

ASSOCIATION: Fiziko-mekhanicheskiy institut AN UkrSSR, Lvov (Physico-mechanical Institute, AN UkrSSR)

SUBMITTED: 21Mar65

ENCL: 00

SUB CODE: HM

NO REF SOV: 003

OTHER: 001

kc
Card 2/2

L 1335-66 EWP(z)/EWT(m)/EWP(b)/I/EWA(d)/EWP(w)/EWP(t) MJN/JD

ACCESSION NR: AP5022403

UR/0369/65/000/004/0465/0467

AUTHOR: Vyval', I. P.; Romaniv, O. N.; Sakhno, Yu. A.

TITLE: Effect of heat and vibration treatment on shear strength and endurance of bits made of R18 steel

SOURCE: Fiziko-khimicheskaya mekhanika materialov, no. 4, 1965, 465-467

TOPIC TAGS: mechanical heat treatment, shear strength, endurance test, steel/ R18 steel

ABSTRACT: R18 steel containing 0.9% C, 18.2% W, 4.1% Cr, 1.1% V, and 0.2% Mo was used in the study. The bits diameter was 9 mm and the drill rod's diameter was 15 mm. The treatment procedure involved heating to 1260°C, cooling in air to 450-600°C, cyclic torsional deformation, and quenching in oil. The treatment equipment was described in the literature (I. V. Vyval' and O. N. Romaniv, Vliyaniye rabochikh sred na svoystva materialov, 1964, vyp. 3 [Effect of Operating Media on Properties of Materials, 1964, No. 3]). The shear strength was examined on a vertical drill at a constant feed rate of 0.11 mm/revolution using type-45 steel. The cutting rate varied from 8.2 to 16.1 m/min. Maxima of bit endurance occurred at

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L 1335-66

ACCESSION NR: AP5022403

2

n = 500 and $\alpha = 2^\circ$ and n = 300 and $\alpha = 4^\circ$. Highest steel bit endurance resulted when the treatment was carried out at 450°C. The treatment has no effect on the red hardness of R18 steel. The effect of tempering temperature on bit hardness is shown in fig. 1 of the Enclosure. The microhardness H_v distribution on bit's profile after the shear strength test is shown in fig. 2 of the Enclosure. Orig. art. has: 2 figures, 1 table.

ASSOCIATION: Fiziko-mekhanicheskiy institut AN UkrSSR, Lvov (Physico-mechanical Institute, AN UkrSSR)

SUBMITTED: 06Mar65

ENCL: 02

12.0 r/min SUB CODE: MM, IE

NO REF SOV: 002

OTHER: 000

Card 2/4

L 1335-66

ACCESSION NR: AP5022403

ENCLOSURE: 01

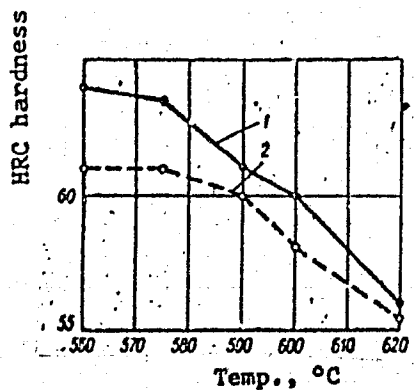


Fig. 1. 1--After treatment ($n = 500$ and $\alpha = 2^\circ$); and 2--After conventional gradual hardening.

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L 1335-66

ACCESSION NR: AP5022403

ENCLOSURE: 02

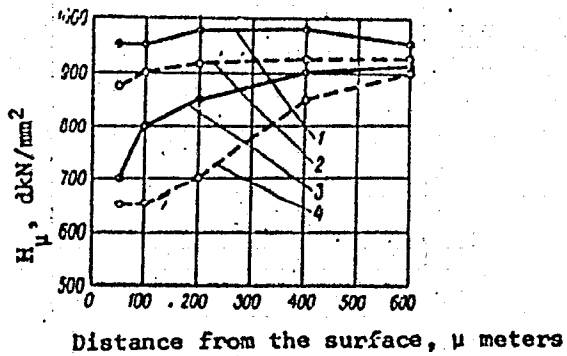


Fig. 2. 1--conventional thermal working at cutting rate $V=8.2$ m/min; 2--heat-vibration working at $V=8.2$ m/min; 3--conventional thermal working at cutting rate $V=12.0$ m/min; 4--heat-vibration working at $V=12.0$ m/min

Card 4/4

VYVAL', I.P., inzh.; BARAN, M.I., inzh.; SALITERNIK, I.G., inzh.

Thermal and vibromechanical hardening of hydraulic-pump blades.
Mashinostroenie no.1:74-75 Ja-F '65. (MIRA 18:4)

VYVAL', I.P.; ROMANIV, O.N.

Effect of high temperature cyclic deformation and subsequent hardening
on the strength properties of steel. Vliian. rab. sred na svois. mat.
no.3:85-91 '64. (MIRA 17:10)

ROMANIV, O.N.; VYVAL', I.P.; KARPENKO, G.V.

Fatigue resistance of metals: sub'ected to two kinds of bending
loading. Vop. mekh. real. tver. tela no.3:179-187 '64.

(MIRA 17:11)

VYVAL', I.P.; ROMANIV, O.N. [Romaniv, O.M.]; KARPENKO, G.V. [Karpenko, H.V.]

Effect of thermovibro-mechanical treatment on the mechanical properties of steel. Dop. AN URSR no.4:474-477 '65.

(MIRA 18:5)

1. Chlen-korrespondent AN UkrSSR (for Karpenko).

L 01910-67 EWT(d)/EWT(m)/EWP(w) IJP(c) EM

ACC NR: AP6029689

(A)

SOURCE CODE: UR/0369/66/002/004/0474/0478

AUTHOR: Romaniv, O. N. ; Kuklyak, N. L. ; Vyval', I. P.

44
B

ORG: Physics-Engineering Institute, AN UkrSSR, L'vov (Fiziko-mekhanicheskiy institut UkrSSR)

TITLE: The effect of high temperature thermomechanical treatment on the cyclic strength of high-carbon steels

18
26

SOURCE: Fiziko-khimicheskaya mekhanika materialov, v. 2, no. 4, 1966, 474-478

TOPIC TAGS: high carbon steel, cyclic stress, high temperature effect, cyclic strength, thermomechanical property

ABSTRACT: The mechanical properties under cyclic stress of the steels 9KhS (0.92% carbon) and ShKh15 (0.98% carbon) were determined after heat treatment at 850 C under applied torque. The treatment resulted in anisotropic properties, as shown in asymmetric stress cycles by an increase in strength and plasticity under direct static load, i. e., in the direction of torque applied during treating. The strength increase was up to twice the value measured on the control specimen, whereas the strength in the inverse direction of stress decreased.

Card 1/2

L 04940-67

ACC NR: AP6029689

The oriented strength increase of steel after treating under load is achieved primarily by homogenization of weak points and internal stresses. Orig. art. has: 4 tables and 3 figures.

SUB CODE: 11/ SUBM DATE: 18Mar66/ ORIG REF: 003/ OTH REF: 003

kh

Card 2/2

L 10324-67 WWT(m)/EWP(t)/ETI IJP(c) JD/wb

ACC NR: AP6020921

SOURCE CODE: UR/0369/66/002/002/0227/0227
24AUTHORS: Vasilenko, I. I.; Vyval', I. P.; Karpenko, G. Y.ORG: Physical Mechanics Institute of the AN UkrSSR, L'vov (Fiziko-mekhanicheskiy institut AN UkrSSR)TITLE: Some data pertaining to the effects of heat treatment on the corrosion cracking of carbon steel

SOURCE: Fiziko-khimicheskaya mekhanika materialov, v. 2, no. 2, 1966, 227

TOPIC TAGS: stress corrosion, corrosion resistance, metal property, steel/ 40Kh steel

ABSTRACT: The effects of surface heat treatment with high frequency current (HFC) on the surface corrosion cracking of 40Kh steel were investigated, and the results are very briefly reported. It was found that HFC surface hardening increased the static corrosion resistance (in 20% H₂SO₄, 100 hours) to 68 dynes/mm², i.e., twice that obtained for volume hardening of the specimens. The most effective surface treatment was found to be volume hardening and annealing (at 200C to HRC = 48--50) of the specimen followed by HFC surface annealing (to HRC = 27--30). The static corrosion strength of these specimens reached 115--120 dynes/mm².

SUB CODE: 11/ SUBM DATE: 03Aug65/ ORIG REF: 002

Card 1/1 Lm

VYVAL'KO, I.G.

USSR/Physiology of Plants. Respiration and Metabolism.

I-3

Abs Jour: Ref. Zhur-Biologiya, No 1, 1958, 1142.

Author : Vyval'ko, I.G., Dushechkin, A.I., Matkovskiy, K.I., Shilov,
Ye. A., Yasnikov, A.A.

Inst : none given

Title : The Formation in Kok-Sagyz Leaves of Carbonic Acid From
Sugars and Acids Containing Marked Carbon

Orig Pub: Byul. po fiziol. rasteniy, 1957, No 1, 15-19.

Abstract: Water solutions of sugars and sodium salts of organic acids containing C^{14} were applied to kok-sagyz leaves (three portions over the course of three days or in one dose before the beginning of the experiment. The air was withdrawn from the plant by use of a vacuum dessicator; the carbon dioxide, absorbable in 25% NaOH, was precipitated, and the radioactivity measured in the dried $BaCO_3$ deposit. It was observed that a considerable

Card : 1/2

-5-

VYVALKO, I.G.; MATKOVSKIY, K.I.; YASNIKOV, A.A.

Oil biosynthesis in the maturing linseed. Ukr. khim. zhur. 24
no.3:372-374 '58. (MIRA 11:9)

1. Institut sel'deliya Ukrainskoy Akademii sel'skokhozyaystvennykh
nauk i Institut organicheskoy khimii AN USSR.
(Linseed oil) (Biosynthesis)

VYVAL'KO, I.G.; DUSHECHKIN, A.I. [deceased]; LUSHCHEVSKAYA, G.M.;
KATKOVSKIY, X.I.; SAVINOV, B.G.; SHILOV, Ye.A.; YASNIKOV, A.A.

Mechanism of the biosynthesis of isoprene compounds. Part 3;
New data on rubber and carotene antecedents in kok-saghyz.
Ukr.khim.zhur. 23 no.4:516-522 '57. (MIRA 10:10)

1. Institut organicheskoy khimii AN USSR i Intitut zemledeliya
Ukrainskoy akademii sel'skokhozaystvennykh nauk.
(Biochemistry) (Kok-saghyz)

~~VYVAL'KO, I.G., MATKOVSKIY, K.I.; YASNIKOV, A.A.~~

Mechanism of biosynthesis of fat in ripening linseeds. Ukr. khim.
zhur, 23 no.1:85-88 '57. (MIRA 10:6)

1. Institut fiziologii rasteniy i agrokhimii Akademii nauk USSR,
Institut organicheskoy khimii Akademii nauk USSR.
(Carbon--Isotopes) (Glycerol) (Acids, Fatty)

... .. increases

VIVAL'KO, I.G.

Effect of gibberellin on the metabolism in germinating corn seeds.
Dokl. AN SSSR 149 no.4:979-981 Ap '63. (MIRA 16:3)

1. Predstavleno akademikom A.L.Kursanovym.
(Gibberellic acid) (Germination) (Plants--Metabolism)

PROKOF'YEV, A.A.; VIVAL'KO, I.G.

Effect of various forms of nitrogen nutrition on the accumulation of reserve substances in the seeds of oil-producing plants. Izv. AN SSSR Ser. biol. no.2:210-222 Mar-Apr'64 (MIRA 17:3)

1. Institut fiziologii rasteniy imeni K.A. Timiryazeva AN SSSR, Moskva, i Nauchno-issledovatel'skiy institut zemledeliya Ukrainskoy akademii sel'skokhozyaystvennykh nauk, Kiyev.

GORODNIY, H.G.; VYVAL'KO, I.G.

Effect of gibberellin on the growth and productivity of flax.
Fiziol. rast. 11 no.6:1078-1080 M-D '64.

(MIRA 18:2)

1. Agronomy Department of Ukrainian Agricultural Academy, Kiyev.

VYVAL'KO, I.G.; MATKOVSKIY, K.I.; YASNIKOV, A.A.

The mechanism of cellulose biosynthesis in developing flax stems. Ukr. khim. zhur. 23 no.2:233-235 '57. (MLRA 10:6)

1. Institut fiziologii rasteniy i agrokhimii Akademii nauk USSR
i Institut organicheskoy khimii Akademii nauk USSR.
(Cellulose) " (Flax) (Biosynthesis)

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961420014-3

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961420014-3"

VYVAL'KO, I. G., Doc Bio Sci, "EFFECT OF NITROGEN
FEEDING ^{upon the} STORAGE OF REDUCED NITROGEN-FREE SUBSTANCES
IN PLANTS." MOSCOW, 1961. (ACAD SCI USSR, INST OF
PHYSIOL OF PLANTS IM K. A. TIMIRYAZEV). (KL, 3-61,
209).

AUTHOR: Vyval'ko, I. G., Matkovskiy, K. I. and Yasnikov, A. A. 73-1-16/26

TITLE: On the Mechanism of Fat Biosynthesis in Maturing Flax Seeds. (K Voprosu O Mekhanizme Biosinteza Zhira v Sozrevayushchikh Semenakh L'na.)

PERIODICAL: Ukrainskiy Khimicheskiy Zhurnal, 1957, Vol. 23, No.1, pp. 85 - 88 (USSR).

ABSTRACT: The distribution of radioactive carbon C^{14} was investigated in fractions of glycerine and fatty acids separated from fats of flax seeds. The transformation of saccharose C^{14} of pyruvic acid-2- C^{14} , acetic acid-1- C^{14} and glyocol-1- C^{14} into fat components, e.g. glycerine and fatty acids of ripening flax seeds was tested by various experiments. The radioactivity of aqueous fractions, of fatty acids and of glycerine is illustrated by graphs 1 - 3. It was shown during the investigations that the acetyl-coenzyme A is synthesised directly from acetic acid and also during the metabolism of carbohydrates and oxidation-reduction processes of acids and aldehydes, e.g. of pyruvic acid. Obviously, the participation of these and other compounds during the synthesis of the acetyl-coenzyme A are linked with the characteristics of the organism or of the living tissues in which these processes take place. E. Newcomb's

Card 1/2

On the Mechanism of Fat Biosynthesis in Maturing Flax Seeds. 73-1-16/26

et al. conclusions (Ref. 5) are discussed. There are
3 graphs and 7 references, 3 of which are Slavic.

SUBMITTED: May, 3, 1956.

ASSOCIATION: Institute of Plant Physiology and Agrochemistry,
Academy of Sciences, Ukrainian SSR
Institute of Organic Chemistry, Academy of Sciences,
Ukrainian S.S.R. (Institut Fiziologii Rastenii i Agro-
khimii AN USSR. Institut Organicheskoy Khimii AN USSR.)

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Card 2/2

~~—VYVALIKO, I.G.~~ DUSHECHKIN, A.I. [deceased]; MATKOVSKIY, K.I.; SHILOV, Ye.A.;
YASNIKOV, A.A.

Mechanism of the biosynthesis of isoprene compounds. Part 1. The
place of sugars and organic acids in the formation of rubber in
kok-saghyz, Ukr. khim. zhur. 22 no.5:644-654 '56. (MLBA 10:6)

1. Institut organicheskoy khimii Akademii nauk USSR i Institut fiziolo-
logii rasteniy i agrokhimii Akademii nauk USSR.
(Kok-saghyz) (Rubber) (Biosynthesis)

73-2-14/22

AUTHORS: Vyval'ko I.G., Matkovskiy K.I. and Yasnikov, A.A.

TITLE: On the mechanism of cellulose biosynthesis in developing flax stems. (K voprosu o mekhanizme biosinteza tsellyulozy v formiruyushchikhsya steblyakh l'na).

PERIODICAL: "Ukrainskiy Khimicheskiy Zhurnal" (Ukrainian Journal of Chemistry), Vol.23, No.2, March-April, 1957, pp.233-235 (USSR).

ABSTRACT: Previously published investigations (1) proved that cellulose is formed in higher plants and some microorganisms at the expense of glucose which is synthesised by these organisms. Experiments carried out by Gritkhaus concerning the study of the biosynthesis of cellulose of cotton fibres. By incising the stem immediately under the boll glucose-1-C¹⁴ was injected. The thus treated boll ripened in 30 days. Investigations of the distribution of radioactivity showed that 99.97% of the total activity of this sugar occurs in the first C atom. The author concluded that cellulose in cotton fibres is formed by the direct polymerisation of glucose molecules by utilising the energy of phosphorylation. The authors attempted to elucidate the action of saccherose C¹⁴, acetic acid-1-C¹⁴, glycine-1-C¹⁴

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On the mechanism of cellulose biosynthesis in developing flax stems. (Cont.)

and pyruvic acid-2-C¹⁴ during the synthesis of cellulose in flax stems. Labelled saccharose-C¹⁴ and glycine-1-C¹⁴ were proved to impart the highest activity. The distribution of radioactivity in cellulose fractions extracted from bast and flax stems is shown in Diagrams 1 and 2. It can be seen that the C¹⁴ atoms pass into the cellulose molecules in various quantities. It is suggested that glycine transforms to d-glucose via the formation of triose.

There are 2 diagrams and 6 references, 3 of which are Slavic.

ASSOCIATION: Institute of Plant Physiology and Agrochemistry, Academy of Sciences, Ukraine and Institute of Organic Chemistry, Academy of Sciences, Ukraine. (Institut Fiziologii Rasteniy i Agrokhimii AN USSR, Institut Organicheskoy Khimii AN USSR).

SUBMITTED: July 12, 1956.

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VYVKIND, A.V.

Arteriovenous anastomoses causing the closing of arteries as
a phenomenon of adaptation. Dokl. AN SSSR 102 no. 4:849-852
Je '55. (MLRA 8:9)

(Arteries) (Veins)

HRABOVSKY, Josef, inz.; VYVLECKA, Frantisek; STRNADEL, Jan; TESARIK, Erich,
inz.

Fast sinking of a shaft at the Paskov Mine in record time. Uhlí
5 no.1:5-9 Ja '63.

1. Vystavba, Ostravsko-Karvinske doly, n.p., zavod 31, hloubeni
jam, Ostrava.

VYVODA, V., doc.dr., CSc.

Role of the department of Marxism-Leninism in activities of
the Institute for Postgraduate Medical Training. Cesk. zprav.
12 no.1:15-19 Ja'64.

1. Vedouci katedry marxismu-leninismu UDL, Praha.

*

VYYASNOVSKIY, A. Yu

25925 Vyyasnovskiy, A. Yu O posledstviyakh cherepnykh rananiy. V.
sb: Problemy vosstanovit. lecheniya invalidov Otechestv. voyny.
Astrakhan', 1948, s. 52-67.

SO: Letopis' Zhurnal Statey, No. 30, Moscow, 1948

VYASHOVSKIY, A. YU.

25991 VYASHOVSKIY, A. YU. Opyt Analiza Epizodov Sotsial'noy Dekompensatsii Nekotorykh Form Travmaticheskoy Entsefalopatii. V SB: Problemy Vostanovit. Lecheniya Invalidov Otechestv. Voiny. Atrakhan', 1948, S. 90-112.

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VYVASHNOVSKIY, A. YU.

Vyyasnovskiy, A. Yu. and Chernova, L. M. - "Schizophrenia -- epilepsy in the light of convulsion therapy", Trudy Astrakh. gos. med. in-ta, Vol. IX, 1948, p. 188-93.

SO: U-3042, 11 March 53, (Letopis 'Zhurnal 'nykh Statey, No. 8, 1949).

VYASNOVSKIY, A. YU.

Vyasnovskiy, A. Yu. and Firova, N. N. - "Schizophrenia and manic-depressive psychoses during the war", Trudy Astrakh. gos. med. in-ta, Vol. IX, 1942, p. 194-99.

SO: U-3042, 11 March 53, (Letopis 'Zhurnal 'nykh Statey, No. 8, 1949).

VYYASNOVSKIY, A. YE., Prof.; Kozhevnikov, P. F.

Psychiatry

Tissue therapy in certain types of psychic disorders. Zhur., nevr., i psikh., 52,
no. 8, 1952

Monthly List of Russian Accessions, Library of Congress, November 1952. UNCLASSIFIED.

VYYASNOVSKIY, A. Yu. (Prof.) (Ufa)

O Shizofrenopodobnykh Formakh Tserebral'nogo Revmatizma P. 112 197
Aktual'n. Probl. nevropatol. i psikiatrii. Kuybyshev, 1957

VYASNOVSKIY, A.Yu.
VYASNOVSKIY, A.Yu. (Astrakhan')

~~Insulin for treating brucellosis and neuropsychic disorders, Zhur.~~
nevr. i psikh. Supplement:87-88 '57. (MIRA 11:1)
(BRUCELLOSIS) (INSULIN) (PSYCHOSES)

VYASNOVSKIY, A.Yu., prof.; LAPIROVA, N.N.

Use of sulfozin in the compound treatment of cerebral rheumatism.
Kaz. med. zhur. no.1:43-45 Ja-P '62. (MIRA 15:3)

(RHEUMATIC FEVER)
(ENCEPHALITIS)
(PYROGENS)

VYASNOVSKIY, A.Yu., prof. (Ufa)

On the pages of the Polish periodical "Medical Review" for
1958. Kaz.med.zhur. 40 no.5:94-96 S-O '59. (MIRA 13:7)
(POLAND--MEDICINE)

VYYEGO, M. S.

26365 Ob opredelenii kriticheckoy. Gidrotekhnika i melioratsiya, 1949, No. 2,
s. 45-47.

SO: LETOPIS' NO. 35, 1949

MAZURKIN, G.I.; VIZNAIN, H.S.; LERUNOV, Ju.I.; GLADYSHEV, Ye.N.

Homolytic reactions of tetraethyltin with propyl bromide.
Izv. AN. Ser. Khim. no. 6:128-130, 1974, (KINA 17:6)

1. Gor'kovskiy gosudarstvennyy universitet im. N.I. Lobachevskogo.

ZHILEYKO, Georgiy Ivanovich, dots.; LEBEDEV, I.V., prof.,
retsenzent; MARKOV, G.T., prof., retsenzent;
FEDOROV, N.N., dots., retsenzent; VZYATYSHEV, V.F.,
assisten, red.;

[Interaction between electrons and an electromagnetic
field] Vzaimodeistvie elektronov s elektromagnitnym
polem. Moskva, Energ. in-t, 1963. 55 p.

(MIRA 18:1)

1. Kafedra teoreticheskikh osnov radiotekhniki Moskov-
skogo energoticheskogo instituta (for Zhileyko).

VYZGO, G.S., inzh.

Concerning the overall use of water power resources. Elek. sta.
32 no.1:35-41 Ja '61. (MIRA 16:7)

(Water power) (Hydroelectric power stations)

VYZGO, M.S.; KUZ'MINOV, Yu.M.

Effect of roughness at the bottom of the water current on the
length of the hydraulic jump. Vop. gidr. no. 12:5-13 '63.
(MIRA 17:5)

1. Chlen-korrespondent AI UzSSR (for Vyzgo).

VYZGO, M.S.; KRAVCHENKO, L.Z.

Examples of the forecasting of local erosion at installations
and its verification on the basis of an operational experiment.
Vop. gidr. no. 12:29-48 '63. (MIRA 17:5)

1. Chlen-korrespondent A.N. UzSSR (for Vyzgo).

VYZCO, M.S.; NABIYEV, A.

Effect of stream aeration on the depth of local erosion. izv.
AN Uz. SSR. Sar. tekhn. nauk 9 no.4:57-60 '65.

(MIRA 18:10)

1. Sredneaziatskiy nauchno-issledovatel'skiy institut vodnykh
problem i gidrotekhniki.

VYZGO, M. S.

Vyzgo, M. S. and Yakshtas, I. A. - "Ground aperture in combatting drifts." Trudy
Sredneaziat nauch.-issled in-ta irrigatsii, Issue 73, 1943, p. 5-14

SO: U-4355, 14 August 53, (Letopis 'Zhurnal 'nykh Stetey, No. 15, 1949)

VYZGO, M.S. (PROF.)

"U Men'shaniye Razmyov i Yvelicheniye Gabaritov Strai i Glabin
bystroteku Shchikh Potokov"

Gidrotekhicheskoye Stroitel'stvo No. 7 1947

VYZGO, M. S.

Vyzgo, M. S. - "The length of tail water bracing and its washcut in the absence of power dampers and protective measures," (Data for compiling calculation standards and constructing tail water hydroengineering structures), Trudy Sredneaziat. nauch.-issled. in-ta irrigatsii, Issue 73, 1948, p. 15-28

SO: U-4355, 14 August 53, (Letopis 'Zhurnal 'nykh Statey, No. 15, 1949)

VYZGO, M. S.

Vyzgo, M. S. - "Formulae for calculating local erosions caused by heavy torrents,"
(A short outline), Trudy Sredneaziat. nauch.-issled. in-ta irrigatsii, Issue 73, 1943,
p. 49-61

SO: U-4355, 14 August 53, (Letopis 'Zhurnal 'nykh Statey, No. 15, 1949)

VYZGO, M. S.

Vyzgo, M. S. and Mashkovich, L. A. - "On the hydraulic jump," Trudy Sredneaziat. nauch.-issled. in-ta irrigatsii, Issue 73, 1948, p. 62-68

SO: U-4355, 14 August 53, (Letopis 'Zhurnal 'nykh Statey, No. 15, 1949)

VYZGO, M.S.

"Razmyvy za Gidrotekhnicheskuyu Sooruzheniyam i Bo: 'ba
s Nimi "

Tashkent, Goizdat UZSSR 1949 123 pp.

VYZGO, M. S.

29000 K voprosu o normirovani Koeffitsienta S. (Po povodu stat'i I. I. Agroskina "Raschefnaya formula dlya Koeffitsienta Shezi S" V Zhurn "Gidrotekhn stroit-vo", 1949, No 2) Gidrotekhn. Stroit-vo, 1949, No9, S. 6-9

SO: Letopis' Zhurnal'nykh Statey, Vol. 39, Moskva, 1949

1711. Vyega, M. B. Local scour beyond horizontal apron
[Illegible text]

VYZGO, M.S.

Problem of calculating the slope and width of stabilized self-forming channels. Vop.gidr. no.1:5-23 '55. (MLRA 9:12)

1. Chlen-korrespondent Akademii nauk UzSSR.
(Canals)

VYZGO, M.S., professor

Letter to the editors. Gidr. stroi. 25 no.7:64 Ag '56.

(MLRA 9:10)

(Hydraulics)

VYZGO, M.S., professor.

On I. I. Levi's article "Scour downstream from river hydroelectric installations." Gidr. stroi. 26 no.2:41-44 F '57.
(MLRA 10:4)

1. Chlen-korrespondent Akademii nauk UzSSR.
(Hydroelectric power stations)
(Hydraulic engineering)

VYZOV, M.S., professor.

Answer to published comments. Gidr. stroi. 26 no.3:50-53 Mr '57.
(MIRA 10:4)

1. Chlen-korrespondent Akademii nauk Uz.SSR.
(Hydraulic engineering)

VYZOC, M.S.

The hydraulic jump; recent results and tasks of further research.
Izv. AN Uz. SSR. Ser. tekhn. nauk 7 no.5:58-66 '63.

(MIRA 17:2)

1. Institut vodnykh problem i gidrotekhniki AN UzSSR.

VYZGO, M.S., prof.; KUZ'MINOV, Yu.M., inzh.

Changing the length of a hydraulic jump by changing the roughness of the bottom of the current of water. Gidr. stroi. 33 no.2:49 F '63. (MIRA 16:4)

1. Chlen-korrespondent AN UzSSR (for Vyzgo).
(Hydraulic jump)

VYZGO, M.S., prot., otv. red.; ARIPOVA, F.M., kand. tekhn. nauk, red.;
IBRAHIMOV, M.I., inzh., red.; KUZ'MINOV, M.P., kand. tekhn.
nauk, red.; MUKHAMEDOV, A.M., kand. tekhn. nauk, red.;
RESHETKINA, H.M., kand. geol.-min. nauk, red.;
KHAMUDKHANOV, M.Z., kand. tekhn. nauk, red.; GAYSINSKAYA,
I.G., red.; KISSELEVA, V.N., red.; BAKLITSKAYA, A.V., red.;
SOKOLOVA, A.A., red.; KARABAYEVA, Kh.U., tekhn. red.

[Power, hydraulic, and mining engineering] Voprosy energetiki,
gidrotekhniki i gornogo dela. Tashkent, Izd-vo AN UzSSR, 1961.
262 p. (MIRA 15:8)

1. Akademiya nauk Uzbekskoy SSR, Tashkent. Otdeleniye tekhnicheskikh nauk. 2. Chlen-korrespondent Akademii nauk Uzbekskoy SSR (for Vyzgo).
(Power engineering) (Hydraulic engineering)
(Mining engineering)

VYZGO, M.S.; SULEYMENOV, K.A.; YUSENOVA, R.Kh.

Concerning the reinforcement of piled rock behind the apron.
Izv. AN Kazakh. SSR. Ser. energ. no.1:65-76 '61. (MIRA 14:12)
(Dams)

VYZGO, M.S.

On N.V.Lapturev's article "Calculation and scaling of sequent depths
of the hydraulic jump." Izv.AN Kir.SSR.Ser.est.i tekhnau 2 (MIRA 14:8)
no.4:193-196 '60.
(Hydraulic jump) (Lapturev, N.V.)

VYZGO, M.S.

Consideration of the uneven distribution of unit expenditures of water, and variations in the speed and kinetic force of the stream in the calculation of local washouts behind hydraulic structures.
Trudy Inst. energ. AN Kazakh. SSR 2:156-174 '60. (MIRA 15:1)
(Hydraulic structures)

VYZGO, M.S.

Hydraulic pattern of erosion below a horizontal reinforcing structure
and a formula for computing the depth of erosion. Izv. AN Uz.SSR.
no.11:11-17 '56. (MIRA 14:5)

1. Chlen-korrespondent AN UzSSR.
(Erosion)

VYZGO, M.S.; SULEYMENOV, K.A.

Some problems in studying the bottom layer of a turbulent stream.
Izv. AN Kazakh. SSR. Ser. energ. no.2:49-55 '60. (MIRA 14:3)
(Hydraulics)

ZAKHIDOV, A.Z.; VYZGO, M.S., otv. red.; MANSUROV, A., red. izd-va; BARTSEVA, V.,
tekhn. red.

[Pumped storage electric power plants in seasonal operation] Nasosno-
akkumuliruyushchie elektrostantsii sezonnogo tsikla. Tashkent, Izd-
vo Akad. nauk Uzbekskoi SSR, 1959. 76 p. (MIRA 14:6)

1. Chlen-korrespondent AN UzSSR (for Vyzgo)
(Hydroelectric power stations)

VYZGO, V.S.; DUBOVAYA, V.K.

Conference of workers of the nitrogen industry. Uzb.khin.shur.
no.4:76 '59. (MIRA 13:1)
(Nitrogen--Congresses)

SOV/98-59-10-13/20

S(6), 10(0)

AUTHOR: Vyzgo, M.S., Professor, Corresponding Member, Uzbekskaya SSR

TITLE: ~~.....~~ Determining Power Curves of Hydraulic Leaps

PERIODICAL: Gidrotekhnicheskoye stroitel'stvo, 1959, Nr 10, pp 48-50 (USSR)

ABSTRACT: The article is a contribution in the section devoted to readers' comments, and deals with a method of calculating the power curves of hydraulic leaps. The formula for determining the combined depths of the hydraulic leap of a horizontal riverbed of rectangular cross-section is

$$\eta = \frac{h_2}{h_1} = \frac{1}{2} (\sqrt{1 + 8\pi_1} - 1), \quad (1)$$

which is formed by the equation of the impulses set up for 2 cross-sections - one before the leap and one at a certain distance beyond it. The kinetic energy P_1 of the cross-section before the

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leap is calculated according to the formula

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Determining Power Curves of Hydraulic Leaps

$$P_1 = \frac{v_1^2}{2g} = \frac{q^2}{gh_1^3} = \frac{h_{kr}^3}{h_1^3} = \left(\frac{1}{\xi_1}\right)^3, \quad (2)$$

where the critical depth

$$h_{kr} = \sqrt[3]{\frac{q^2}{g}} \quad \text{and the ratio } \frac{h_1}{h_{kr}} = \xi_1.$$

The approximate accuracy of these calculations is borne out by Professor M.D. Chertousov's graph (Ref.1). Variations in the results of theoretical and practical calculations of the value η have led to some authorities formulating such functions as

$$\eta = A\sqrt{P_1}, \quad (3)$$

but the best results are obtained by means of the formula

$$\eta = .95 \sqrt{2P_1} = \sqrt{1.6P_1} = \frac{4}{3} \sqrt{P_1}. \quad (4)$$

It has recently been established by the VNIIG (All-Union Scientific Research Institute of Hydraulics), SANIIRI (Central Asian

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Determining Power Curves of Hydraulic Leaps

Scientific Research Institute of Irrigation), AN UzSSR (AS UzSSR), etc., that immediately beyond the vortex zone the values of the kinetic energy correctives α_0 and α vary considerably from the unit, and that beyond it there is an area where speeds and pressures are leveled out. In conjunction with L.A. Mashkovich, the author expresses the correctives $(\alpha_0)_n$ and α_n in the cross-section immediately beyond the vortex zone as $(\alpha_0)_n = \sqrt[3]{\eta}$ (5)

$$\text{and } \alpha_n = 3 \sqrt[3]{\eta - 2} ; \quad (6)$$

these results are borne out by D.I. Kumin (Ref.9) and A.A. Kadyrov (Ref.7). From the functions (6) and (4) we obtain

$$\alpha_n = 3 \sqrt[6]{1.8P} - 2 \approx \frac{3.33}{\sqrt{\xi_1}} - \eta , \quad (7)$$

and, similarly, from (5) and (4) we obtain $(\alpha_0)_n = \frac{1.11}{\sqrt{\xi_1}}$. (8)

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Fig.1 shows a graph illustrating the relation of $(\alpha_0)_n$ and α_n

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Determining Power Curves of Hydraulic Leaps

and ξ_1 and η , and the curve $\xi_2 = f(\xi_1)$ according to the equation (4), where $\xi_2 = \frac{h_2}{h_{kr}}$. From the graph the power curve of the

streamflow at the cross-section n-n of the hydraulic leap can easily be calculated. Tests by Professor D.I. Kumin and Professor I.I. Levi have shown that at the commencement of flooding the value α_n changes, at first decreasing, and then increasing again. The author remarks that this field has yet to be properly researched, particularly in the case of dampers being used. Present data show that the graph in fig.2 accurately records the changes (α_n) in the cross-section n-n; in cross-sections situated lower downstream than n-n, α decreases according to the function $\alpha = f(\alpha_n, \lambda, n)$, where n is the coefficient of roughness. There are 2 graphs and 16 references, 15 of which are Soviet, and 1 East German.

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SOV/124-57-4-4284

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 4, p 61 (USSR)

AUTHOR: Vyzgo, M.S.

TITLE: On the Erosion of a Rocky Bed Downstream of a Dam and a Methodology for Its Investigations (With Reference to Papers by Abelev and Kruchinina) [O razmyvakh skal'nogo rusla za plotinami i o metodike ikh issledovaniy (po povodu statey Abeleva i Kruchininoy)]

PERIODICAL: Izv. AN UzSSR, 1956, Nr 3, pp 103-108

ABSTRACT: The paper demonstrates that the methodology of model simulation of local erosion of rocky soil near dams used in the experiments of A.S. Abelev and A. A. Kruchinina (see RZhMekh, 1955, abstract 3016) suffers from a number of basic defects. The substitution of rocky soil in the model by gravel is arbitrary, since it does not reflect the true picture of the effect of a flow on a rocky soil. The author adduces some interesting and detailed results of the operation of a specific dam and points out their considerable divergence from the results of the laboratory experiments of Abelev conducted for the investigation of erosion on a model of the same dam. In analyzing the description of similar laboratory investigations on local erosion conducted on the

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SOV/124-57-4-4284

On the Erosion of a Rocky Bed Downstream of a Dam (cont.)

models of a certain other dam the author notes the presence of still other deficiencies in the methodology of the experiments (an arbitrary selection of soils, the failure to take into account a number of properties and characteristics of the flow in the area of the spillway and the tail water, etc.). In order to prove the flaws in the methodology of the model simulation of local erosion the author also submits certain theoretical considerations substantiated by formulas suggested for local erosion but fails to notice the structural flaws of these formulas which have led him to certain erroneous conclusions. Bibliography: 8 references.

V. N. Goncharov

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VYZGO, M.S.

Scour of solid rock beds below dams and methods used in
studying it; apropos of articles by Abelev and Kruchinina. Izv.
AN Uz.SSR 3:103-108 '56. (MIRA 12:6)

1. Chlen-korrespondent AN UzSSR.
(Erosion) (Dams)

VYZGO, M.S.; FILIPPOV, Ye.G.

Spreading of stream and washout of incoherent soils. Irv. AN
Uz. SSR no.5:45-56 '56. (MIRA 12:5)

1. Chlen-korrespondent AN UzSSR (for Vyzgo).
(Hydrodynamics)