

И. П. Сидя, доктор технических наук.

**Determining the margin of safety in structures. Stroi.prom.25
no.8:11-14 Ag '47. (MIRA 9:1)**

**1. TSentral'nyy nauchno-issledovatel'skiy institut prcayshlennykh
sooruzheniy.**

(Structures, Theory of)

RZHANITSYN, A. R.

Rzhanitsyn, A. R. "A method of determining the weight limits on structures",
in the collection: Issled. raboty po inzh. konstruktsiyam, Issue 2 Moscow,
1948, p. 62-68, - Bibliog: 5 items.

SO: U-3261, 10 April 53, (Letopis 'Zhurnal 'nykh Statey, No. 11, 1949).

RZHANITSYN, A. R.

Rzhanitsyn, A. R. "The time factor in the calculation of structures", in the collection: Issled raboty po inzh. konstruktsiyam, Issue 2, Moscow, 1948, p. 89-113.

SO: U-3261, 10 April 53, (Letopis 'Zhurnal 'nykh Statey, No. 11, 1949).

Author: Rahnikov, A. E.

Title: Building Calculation, taking into account the plastic properties of materials. (Raschet sooruzhenii s uchetom plasticheskikh svoistv materialov.
234 p.

City: Moscow

Publisher:

Subscriptions: The Army-Navy Pub. Est. (Stroivoennormizdat).

Date: 1949

Available: Library of Congress

Source: Monthly List of Russian Accessions, Vol. 4, No. 4, July 1951

RZHANITSYN, A. R.

Nekotorye voprosy mekhaniki sistem, deformiruiushchikhsia vo vremeni.
Moskva, Gosttekhizdat, 1949. 252 p., diagsr.

Bibliography: p. 251-252.

Title tr.: Some problems in the mechanics of systems which deform in time.

TG265.R9

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of
Congress, 1955.

RZHANITSYN, A. R.

Raschet sooruzhenii s uchetom plasticheskikh sovisty materialov. Moskva, Stróivoénmorídat, 1949. 252 p., illus.

Bibliography: p. 251-252.

Title tr.: Some problems in the mechanics of systems which deform in time.

TG260.R9

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955.

RZHANITSYN, A. R.

RT-1211 /Some problems in the mechanics of systems which deform with time/ Chapter I
(pp.11-34) from: Nekotorye Voprosy Mekhaniki Sistem, Deformiruiushchikhsia vo
Vremeni. Moscow-Leningrad, 1949.

Rzhanitsyn, A. R. - "The stability of thin-walled tubing beyond the limits of elasticity"
Trudy Laboratorii stroit. mekhaniki (Tsentr. nauch.-issled. in-t prom. sooruzheniy),
Moscow, 1949, p. 44-81.

SO: U-411, 17 July 53, (Letopis 'Zhurnal 'nykh Statey, No. 20, 1949).

21681

RZHANITSYN, A. R. Raschet plastinok po predelbnomu
sostoyaniyu na deystvie sosredotochennoy sily. V sb:
Issledovaniya po teorii sooruzheniy. vyp. 4. M-L., 1949,
s. 79-95.

SO: Letopis' Zhurnal'nykh Statey, No. 29, Moskva, 1949

1. RZHANITSYN, A.R. (PROF.)
2. USSR (600)
4. Strength of Materials
7. Use of statistical methods in calculating strength and safety of structures.
Stroi. prom. 30 no.6, 1952 D-P Tekhn. Nauk
9. Monthly List of Russian Accessions, Library of Congress, August 1952, unclass.

RZHANITSYNA, A.M., professor, doktor tekhnicheskikh nauk; redaktor; **AFANAS'YEV, A.M.**, kandidat tekhnicheskikh nauk nauchnyy redaktor; **TUMARKIN, D.M.**, inzhener, redaktor; **MEDVEDEV, L.Ya.**, tekhnicheskiy redaktor

[Studies on structural mechanics; collection of articles] Issledovaniia po stroitel'noi mekhanike; sbornik statei. Pod red. A.R.Rzhanitsyna. Moskva, Gos. izd-vo lit-ry po stroit. i arkhitekture, 1954, 197 p.

(MLRA 8:3)

1. Moscow. Tsentral'nyy nauchno-issledovatel'skiy institut promyshlennykh sooruzheniy.

(Mechanics, Applied)

RZHANITSYN, Aleksey Rur'evich; ANANAS'YEV, A.M., kandidat tekhnicheskikh nauk, redaktor; BERDICHVSKIY, G.I., kandidat tekhnicheskikh nauk, redaktor; DAKHOV, V.S., tekhnicheskii redaktor; TOKER, A.M., tekhnicheskii redaktor.

[Structural calculations, taking into account the plastic properties of materials] Raschet sooruzhenii s uch'etom plasticheskikh svoistv materialov. Izd. 2-e, perer. Moskva, Gos.izd-vo lit-ry po stroitel'stvu i arkhitekture, 1954. 286 p. (MIRA 8:5)
(Structures, Theory of)

SOV/124-57-7-8265

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 7, p 125 (USSR)

AUTHOR: Rzhanitsyn, A. R.

TITLE: Temperature Stresses in Concrete Dams Generated by Ambient Temperatures (Temperaturnyye napryazheniya, vznikayushchiye v betonnykh plotinakh ot deystviya naruzhnykh temperatur)

PERIODICAL: V sb.: Issledovaniya po stroitel'noy mekhanike. Moscow, Gos. izdvo, lit. po str-vu i arkhitekture, 1954, pp 24-42

ABSTRACT: The author uses the equations of linear creep stated in his previous paper (see RZhMekh, 1956, abstract 3098). A one-dimensional problem applicable to a very large mass is studied, namely, an infinite semispace, with a given temperature that varies with time according to a single law all along the planar boundary of the semispace. The temperature inside the mass is determined by means of the equation of heat conduction. The solution of the problem is reduced to an integral equation:

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$$\frac{\sigma_x(t)}{H} + \int_{-\infty}^t K_1(t-\tau) \sigma_x(\tau) d\tau + \frac{\alpha}{1-\nu} A_n \exp(-\lambda_n z) \sin(\omega_n t - \lambda_n z) = 0$$

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Temperature Stresses in Concrete Dams Generated by Ambient Temperatures

where $K_1(t)$ is the influence function of the preceding loadings upon the strains at a given moment of time t , H and ν are the instantaneous modulus of elasticity and Poisson ratio, t is the time, α is the linear coefficient of temperature expansion of the body, R is the thermal resistivity of concrete, c is the specific heat capacity, ω_n is the frequency of the temperature variation, and A_n is its amplitude

$$\lambda_n = \sqrt{R c \omega_n / 2}$$

The solution of this equation is obtained in the following form:

$$\sigma_x(t) = \frac{\alpha A_n \exp(-\lambda_n z)}{(1-\nu) \sqrt{A_n^2 + (\bar{B}_n + H^{-1})^2}} \sin(\lambda_n z - \omega_n t - \xi)$$

Here

$$\bar{A}_n = \int_0^{\infty} K_1(\psi) \sin \omega_n \psi d\psi,$$

$$\bar{B}_n = \int_0^{\infty} K_1(\psi) \cos \omega_n \psi d\psi,$$

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Temperature Stresses in Concrete Dams Generated by Ambient Temperatures

and

$$\psi = t - \tau, \quad \xi = \tan^{-1} \frac{\bar{A}_n}{\bar{B}_n + H^{-1}}$$

The following form is chosen for the $K_1(t)$ function

$$K_1(t) = \frac{ae^{-bt}}{t(1-d)}$$

where a , b , and d are certain positive constants, with d being $0 < d < 1$. A numerical sample is included.

M. M. Manukyan

Card 3/3

~~RZHANITSYN, A.B., professor, doktor tekhnicheskikh nauk; MILEYKOVSKIY,
I.B., kandidat tekhnicheskikh nauk.~~

Calculating the resistance of the framework shell of the sky-
scraper section of the Palace of Culture and Science in Warsaw
against wind pressure. Stroi.prom.32 no.2:24-28 F '54. (MIRA 7:2)

1. Tsentral'nyy nauchno-issledovatel'skiy institut promyshlennykh
sooruzheniy.

(Warsaw--Building, Iron and steel)

(Building, Iron and steel--Warsaw)

RZHANITSYN, Aleksey Rufovich; SNITKO, I.K., redaktor; MURASHOVA, N.Ya.,
tekhnicheskiy redaktor

[Stability of the equilibrium of elastic systems] Ustoichivost'
ravnovesia uprugikh sistem. Moskva, Gos. izd-vo tekhniko-teoret.
lit-ry, 1955. 475 p. (MLRA 8:7)
(Elasticity)

SOV/124-57-7-8266

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 7, p 125 (USSR)

AUTHOR: Rzhanitsyn, A. R.

TITLE: Theoretical Prerequisites to the Setting up of Stress-rupture Calculation Methods for Wooden Structures (Teoreticheskiye predposylki k postroyeniyu metodoy rascheta derevyannykh konstruktsiy vo vremeni)

PERIODICAL: V sb.: Issledovaniya prochnosti i deformativnosti drevesiny. Moscow, Gos. izd-vo lit. po str-vu i arkhitekture, 1956, pp 21-31

ABSTRACT: The equation given below is proposed for expressing the initial stages of deformation due to the phenomena of creep and relaxation of wood

$$nH\dot{\epsilon} + E\dot{\epsilon} = \sigma + n\dot{\sigma}$$

This expression relates the stress (σ), the strain (ϵ), and the rate of strain ($\dot{\epsilon}$) with the instantaneous modulus (H) and the long-term modulus (E) of elasticity and the time of relaxation n . For the second stage of strain the second term on the left side of the equation is

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Theoretical Prerequisites to the Setting up of Stress-rupture Calculation (cont.)

replaced by the yield value σ_{yield} . It is proposed that the influence of preceding loadings on subsequent strains be evaluated by means of exponential functions. The beginning of the failure of the material is determined by the critical strain ϵ_f , termed failure strain. A formula is proposed for the calculation of the time which is required to reach the failure strain with respect to the initial loading.

N. I. Malinin

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25(2)

pp. 2,3

PHASE I BOOK EXPLOITATION

SOV/2165

Akademiya stroitel'stva i arkhitektury SSSR. Institut stroitel'nykh konstruktsiy

Issledovaniya po voprosam teorii plastichnosti i prochnosti stroitel'nykh konstruktsiy; sbornik statey (Investigating of Problems in the Theory of Plasticity and Strength of Engineering Structures; Collection of Articles) Moscow, Gosstroyizdat, 1958. 211 p. 2,500 copies printed.

Ed.: A.R. Rzhanitsyn, Corresponding Member, Academy of Building and Architecture, USSR, Professor, Doctor of Technical Sciences; Ed. of Publishing House: N.O. Yegorova; Tech. Ed.: P.G. Gelenson.

PURPOSE: This collection of articles is intended for scientific workers concerned with the theory of structural design.

COVERAGE: The book consists of articles on the theory of plasticity, the dynamics of nonelastic systems, and the theory of elasticity. The articles deal with investigations of these problems in 1956

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Investigating of Problems (Cont.)

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and 1957 at the Tsentral'nyy nauchno-issledovatel'skiy intitut stroitel'nykh konstruktsiy, ASIA SSSR (Central Scientific Research Institute of Structures, Academy of Building and Architecture, USSR). This collection of articles is the fourth of a series written by staff members of the Laboratory for Problems of Strength and the Laboratory of Structural Mechanics of TsNIISK. References follow most of the articles.

TABLE OF CONTENTS:

Foreword

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Rzhanitsyn, A.R. [Corresponding Member, Academy of Building and Architecture, USSR, Doctor of Technical Sciences, Professor]. Design of Shells by the Method of Limit Equilibrium

7

As a base for his investigation, the author uses the simplified kinematic method for analysis of elastoplastic systems, which takes the effect of strain hardening and nonlinear deformation into account. He presents a number of solutions for the state of failure of thin-walled structures, such as thin plates and slightly curved and cylindrical shells. Use of this method for the design of reinforced concrete shells is also explained.

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Investigating of Problems (Cont.)

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Rzhanitsyn, A.R. Problem of Creep From Temperature and Humidity
Effect

36

The author discusses a method of calculating creep caused by changes of temperature and humidity. The method includes the use of a variable scale of conditional time. The scale varies with temperature and humidity, while the properties of creep are not affected. This method solves the problem of calculating creep of a stretched bar during periodical wide-range temperature changes and the problem of calculating stresses generated during the drying of a rigidly fastened thin plate or film. This method is also satisfactory for solving creep problems in green concrete during setting time.

Rzhanitsyn, A.R. Limit Equilibrium of a Rectangular Plate Under
a Concentrated Load Applied at an Arbitrary Point

50

The author discusses types of plate failure occurring at various positions of concentrated load.

Rzhanitsyn, A.R. The Problem of Movement of Elasto-plastic Beams
and Plates Loaded Beyond the Limit of Their Carrying Capacity

62

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Investigating of Problems (Cont.)

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The article discusses sudden loading, during which the movement of a beam does not change in time. Also discussed is an extremal principle for determining the true form of movement of a beam or a plate under steady loading exceeding the carrying capacity of the structure.

Geniyev, G.A. [Candidate of Technical Sciences]. Some Problems of the Propagation of Compression Waves in Soil 72

The theory of the propagation of compression shock waves in ideally loose compressible soil is discussed. Calculations based on this theory are useful for determining pressure on underground structures during surface blast loading.

Geniyev, G.A. Some Problems in the Dynamics of Visco-plastic Media 123

Differential equations for plane steady motion of a visco-plastic medium are derived, and an approximate method for their solution is discussed.

Geniyev, G.A. Problem of Strength of Concrete 134

A relatively simple analytical expression for the strength of concrete is presented showing the behavior of concrete at

Investigating of Problems (Cont.)

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compression and tension and giving results which agree with experimental data.

Estrin, M.I. [Candidate of Technical Sciences]. Theory of the Unsteady Motion of a Perfectly Plastic Body 145
Some problems of the dynamics of a perfectly plastic body under conditions of plane deformation are discussed.

Estrin, M.I. Design of Elastic Systems for Stationary Random Effects 155

The author analyzes the problem of the effect of occasional stationary loads (wind, temperature) on the elastic and non-linearly elastic systems by using the theory of stationary random functions. Formulas for relatively simple calculation of numerical mean values of displacements and deflections are derived.

Mileykovskiy, I.E. [Candidate of Technical Sciences]. Design of Massive Plates by the Variational Method Using Resolvent Functions for Displacements 173

Card 5/6

PREGER, L.M.; PZHANITSYN, A.R., prof., nauchnyy rukovoditel' raboty

Experimental determination of critical forces. Trudy TISI 11:
138-147 '64.

Supercritical deformation of trapezoid and triangular plates.
Ibid.:148-156 (MIRA 19:1)

ACCESSION NR: AR4041551

S/0124/64/000/005/V040/V041

SOURCE: Ref. zh. Mekhanika, Abs. 5V287

AUTHOR: Rzhanitsy*n, A. R.

TITLE: Stability of systems having properties of creep

CITED SOURCE: Sb. Polzuchest' i dlitel'n. prochnost'. Novosibirsk, Sib. otd. AN SSSR, 1963, 15-28

TOPIC TAGS: creep characteristic, creep stability, stability

TRANSLATION: Stability in creep is discussed from propositions of the general theory of stability of motion. Motion is considered unstable, if with initial perturbations as small as deviations from the initial position increase without limit in a finite or infinite interval of time. We consider linear equations of state: differential equation of a linear viscous-elastic and relaxing body and an integral equation

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of hereditary type. In general, judgements about stability (instability) are made from investigation of convergence (divergence) of a certain definite integral. Nonlinear equations of state are assumed solvable for the speed of displacement, which also allows one to reduce the problem to investigation of a certain improper integral. Especially considered is the particular case of a quasi-linear equation of state on the assumption of linear dependence of generalized effort on displacement. In conclusion there is applied the method of variation of equation of state in the environment of the zero position [see Yu. N. Rabotnov and S. A. Shesterikov, Applied Mathematics and Mechanics, 1957, 21, No. 3, 406 - 412 (Journal of Abstracts. Mechanics, 1958, No. 7, 8026)] and there are derived expressions for constant and instantaneous critical loads.

SUB CODE: AS

ENCL: 00

Card 2/2

RZHANITSYN, A.R., red.

[Design of thin-walled prefabricated structures] Raschet
tonkostennykh prostroyennykh konstruktsiy. Moskva,
Stroizdat, 1964. 294 p. (MIRA 17:7)

RZHANITSYN, A.R., prof., red.

[Creep of building materials and structural elements] Polzuchest' stroitel'nykh materialov i konstruktsii. Pod red. A.R.Rzhanitsyna. Moskva, Stroiizdat, 1964. 289 p.
(MIRA 17:6)

1. Nauchno-koordinatsionnoye soveshchaniye po voprosam polzuchesti. Moscow, 1962.

RZHANITSYN, A.R. (Moskva)

Some relationships in the work of a rectangular section of
a bar beyond elastic limit. Izv. AN SSSR, Mekh. i mashinostr.
no.6:17-19 N-D '63. (MIRA 17:1)

"On some general problems of the statical stability of conservative and non-conservative systems"

Report presented at the 2nd All-Union Congress on Theoretical and Applied Mechanics, Moscow 29 Jan - 5 Feb 64.

RZHANITSYN, B.A.

**Strengthening and compaction of settling loess soil. [Trudy]
NII osn. nb. 50:4-9 '62. (MIRA 16:9)**

RZHANITSYN, B.A.

Strengthening naturally bedded soil. Osn., fund. i mekh. grun.
4 no. 4:23-25 '62. (MIRA 15:8)
(Soil stabilization)

RZHANITSYN, B.A., prof., doktor tekhn.nauk; ASKALONOV, V.V., doktor geologo-mineral.nauk, ELESKINA, N.A., mladshiy nauchnyy sotrudnik; STRASHCHYKH, V.P., red.izd-va; BOROVNEV, N.K., tekhn.red.

[Instructions for the stabilization of sandy soils with carbamide resin] Ukazaniia po zakrepleniiu peschanykh gruntov karbamidnoi smoloi. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit. materialam, 1960. 17 p. (MIRA 14:6)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut osnovaniy i podzemnykh sooruzheniy.
(Soil stabilization) (Resins, Synthetic)

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 3, 15-57-3-3741
p 181 (USSR)

AUTHOR: Rzhanitsyn, B. A.

TITLE: ~~Electrical Drainage of Clay Soils~~
Electrical Drainage of Clay Soils (Elektroosusheniye glinistykh gruntov)

PERIODICAL: Tr. n.-i. in-ta osnovaniy i fundamentov, 1954, Nr 23,
pp 4-12

ABSTRACT: By using the electrical drainage plan proposed by the author, it is possible to use arc welding units with a voltage of 30 to 60 v. A fine filter is used for the cathode, and a metal tube for the anode. The electrodes are placed about the periphery of the ditch in parallel rows, with a spacing of approximately one meter between them. The anode row is placed on the inner side of the trench. In order to compute the distance between electrodes L and the values of the electrical settings, it is necessary to know the resistivity of the soil ρ , the current density I , and the effective voltage of the

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15-57-3-3741

Electrical Drainage of Clay Soils

electrical setting U . For soil in a plastic state, ρ is insignificant. During the transition of water into a bound state, ρ increases markedly. The technique of determining the value is presented. It is necessary to find the optimum current density, for with low current densities the water is lowered only slightly and with high current densities the ground cracks. The most suitable current density is 0.5 to 2 amp/m² and it is most convenient to use a voltage of 30 to 60 v. The spacing between electrodes is computed according to the formula $L = U \times 100 / I \rho \phi$, where ϕ is a coefficient depending on the size and spacing of the electrodes (2 to 3). The technique employed in this experiment shows that the current density between the two rows of anodes is negligible; it is increased only in the lower part of the field. As a consequence of this, streams of water are formed, directed downward, which guard the drying zone from the admission of water from below and facilitate more intensive drying. The consumption of electricity amounts to 2 to 10 kw-hr per cubic meter for drying out the soil. The

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Electrical Drainage of Clay Soils

equipment necessary for the practical application of this method is easy to build and is found in the majority of construction areas.

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L. I. (L)

RZHANITSYN, B.A.

For wide introduction of soil stabilization into construction
practice. Osn., fund.1 mekh.grun. 4 no.11-2 '62.

(MIRA 16:2)

(Soil stabilization)

RZHANTSYN, B. A., ZHUKOV, V. F., GORBUNOV, B. P., KURYACHIY, A. N.,
KURDENKOV, L. I.,

"Pre-construction thawing and strengthening of permafrost soils"

report to be submitted for the Intl. Conference on Permafrost, Purdue Univ.,
Lafayette Indiana, 11-15 Nov 63

PETRENKO, G.M., kand. tekhn. nauk, dots., otv. red.; BEZRUK, V.M., doktor geol.-miner. nauk, prof., red.; DRANNIKOV, A.M., doktor geol.-min. nauk, prof., red.; LITVINOV, I.M., red.; REL'TOV, B.F., kand. tekhn. nauk, red.; RZHANITSYN, B.A., doktor tekhn. nauk, prof., red.; DMITRIYEVA, I.K., red.

[Materials of the Conference on the Stabilization and Packing of Soils] Materialy Soveshhaniia po zakrepleniui i uplotneniiu gruntov. Kiev, Akad. stroit. i arkhit.USSR, 1962. 462 p. (MIRA 16:6)

1. Soveshchaniye po zakrepleniuyu i uplotneniyu gruntov, Kiyev, 1962. 2. Gosudarstvennyy vsesoyuznyy dorozhnyy nauchno-issledovatel'skiy institut (for Bezruk). 3. Kiyevskiy inzhenerno-stroitel'nyy institut (for Drannikov, Petrenko). 4. Vsesoyuznyy nauchno-issledovatel'skiy institut gidrotekhniki (for Rel'tov). 5. Nauchno-issledovatel'skiy institut osnovaniy Akademii stroitel'stva i arkhitektury SSSR (for Rzhanitsyn).
(Soil stabilization)

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GORDONOV, B.V.; KURDENKOV, G.A. Prinimatel'skaya: RZHANITSYN, B.A.;
DROBNITSKAYA, T.V.; CHUVELOV, V.K.; IVANOV, V.A.

Electric means of melting and compacting permafrost foundation soils
before construction. Osn., fund. i mekh. grun. 3 no.4:31 '61.

(MIRA 14:8)

(Frozen ground) (Soil compaction) (Soil heating)

SERGEYEV, Ye.M., doktor geol.-min. nauk, prof., otv. red.; **ASKALONOV, V.V.**, doktor geol.-min. nauk, red.; **BEZRUK, V.M.**, doktor geol.-min. nauk, prof., red.; **MOROZOV, S.S.**, doktor geol.-min. nauk, prof., red.; **RZHANITSYN, B.A.**, doktor tekhn. nauk, prof., red.; **VASIL'YEVA, V.I.**, red.; **GEORGIYEVA, G.I.**, tekhn. red.

[Proceedings of the Conference on the Theoretical Bases of the Technical Improvement of Soils] Trudy Soveshchaniia po teoreticheskim osnovam tekhnicheskoi melioratsii gruntov. Moscow, 1960. Otvet. red. E.M.Sergeev. Moskva, Izd-vo Mosk. univ., 1961. 466 p. (MIRA 14:10)

1. Soveshchaniye po teoreticheskim osnovam tekhnicheskoy melioratsii gruntov. Moscow, 1960. 2. Moskovskiy gosudarstvennyy universitet (for Sergeyev, Morozov). 3. Nauchno-issledovatel'skiy institut osnovaniy i podzemnykh sooruzheniy Akademii stroitel'stva i arkhitektury SSSR, Moskva (for Askalonov, Rzhanitsyn). 4. Gosudarstvennyy vsesoyuznyy dorozhnyy nauchno-issledovatel'skiy institut, Moskva (for Bezruk).
(Soil mechanics)

RZHANITSYN, Nikolay Aleksandrovich; POPOV, I.V., otv.red.; IVZHENKO,
A.Kh., red.; SERGEYEV, A.N., tekhn.red.

[Morphological and hydrological characteristics of river systems]
Morfologicheskie i gidrologicheskie zakonomernosti stroeniya
rechnoi asti. Leningrad, Gidrometeor, izd-vo, 1960. 237 p.
(Rivers) (MIRA 13:7)

BLIZNYAK, Ye.V., doktor tekhn.nauk, otv.red.[deceased]; ROSSINSKIY, K.I.,
kand.tekhn.nauk, zamestitel' otv.red.; ANDREYEV, O.V., kand.tekhn.
nauk, red.; ZRELOV, N.P., kand.tekhn.nauk; RZHANITSYN, H.A., kand.
tekhn.nauk, red.; N.S. SHARASHKINA, N.S., red.; YEGOROV, V.I.,
red.izd-va; KNOROZ, M.M., red.izd-va; SIMKINA, Ye.I., tekhn.red.;
KASHINA, P.S., tekhn.red.

[Channel processes; a collection of articles] Ruslovye protsessy;
sbornik statei. Moskva, 1958. 394 p. (MIRA 12:1)

1. AN SSSR. Sektsiya po nauchnoy razrabotke problem vodnogo
khozyaystva. 2. Sektsiya po nauchnoy razrabotke problem vodnogo
khozyaystva AN SSSR, Vsesoyuznyy nauchno-issledovatel'skiy i
proyektno-izyskatel'skiy inst. im. S.Ya.Zhuka (for Rossinskiy).
3. Vsesoyuznyy nauchno-issledovatel'skiy inst. transportnogo
stroitel'stva Ministerstva transportnogo stroitel'stva SSSR (for
Andreyev). 4. Vsesoyuznyy nauchno-issledovatel'skiy institut
vodoprovodnaya, kanalizatsii, gidrotekhnicheskikh sooruzheniy
i inzhenernoy gidrogeologii (for Zrellov). 5. Tsentral'nyy nauchno-
issledovatel'skiy institut ekonomiki i ekspluatatsii vodnogo
transporta (for Rzhaniitsyn). 6. Sektsiya po nauchnoy razrabotke
problem vodnogo khozyaystva AN SSSR (for Sharashkina).

(Hydraulic engineering) (Rivers)

MAKAVEYEV, N.I., prof.; LAPTEV, M.I.; MITYAKOVA, M.N.; KONDRAKHOVA, Ye.I.;
SHANKIN, P.A.; RZHANITSYN, N.A.; RABKOVA, Ye.K.; VYKHLOV, K.P.;
CHALOV, R.S.

[Planning the navigable channels of unregulated rivers.]
Proektirovanie sudovykh khodov na svobodnykh rekakh. Moskva,
Transport, 1964. 261 p. (Moscow. Tsentral'nyi
nauchno-issledovatel'skii institut ekonomiki i ekspluatatsii
vodnogo transporta. Trudy, no. 36). (MIRA 18:12)

14-57-7-14854D

Translation from: Referativnyy zhurnal, Geografiya, 1957, Nr 7,
p 104 (USSR)

AUTHOR: Rzhanitsyn, N. A.

TITLE: Complex Characteristics of Actual Channel Flows and
Their Application to Fluvial Hydrotechnology (Kompleksnyye kharakteristiki yestestvennykh ruslovykh potokov i ikh primeneniye v rechnoy gidrotekhnike)

ABSTRACT: Bibliographic entry on the author's dissertation for
the degree of Doctor of Technical Sciences, presented
to Mosk. inzh.-stroit. in-t (Moscow Engineering and
Construction Institute), Moscow, 1956

ASSOCIATION: Mosk. inzh.-stroit. in-t (Moscow Engineering and
Construction Institute)

Card 1/1

Name: RZHANTSYN, N. A.

Dissertation: General characteristics of flow in natural stream beds and their application in hydraulic engineering dealing with rivers

Degree: Doc Tech Sci

Defended at
Publication
Institution: Min Higher Education USSR, Moscow Order of Labor Red Banner Construction Engineering Inst imeni V. V. Kuybyshev

Defense Date, Place: 1956, Moscow

Source: Knizhnaya Letopis', No 48, 1956.

APPROVED FOR RELEASE: Thursday, September 26, 2002. CIA-RDP86-00513R001446530015-2
APPROVED FOR RELEASE: Thursday, September 26, 2002. All rights reserved. Institute for Foundations, Moscow
LOMIZE, G. M., and NETUSHIL, A. V., Profs., Molotov Power
Institute for Foundations, Moscow

"Electro-osmotic Processes in Clayey Soils and Dewatering During
Excavations," a paper submitted at the 4th International Conference of
the International Society of Soil Mechanics and Foundation Engineering,
London, 12-24 Aug 57.

RZHANITZIN, B.A.

RT-99. (Electrochemical stabilization of clayey ground). Elektrokhimicheskoe zakreplenie
glinistykh gruntov.
Doklady Soveshchaniia po Zakreplenii Gruntov i Gornykh Porod, 1: 55-66, 1941.

Dissertation: "Silicatization of a Ground and its Application in Building." All-Union Sci. Res. Inst. of Water Supply, Sewerage, Hydraulic Structures and Engineering Hydrogeology--VODGEO. 11 Mar 47.

SO: Vechernyaya Moskva, Mar, 1947 (Project #17836)

RZHANITSYN, B.A.

Physicochemical methods of transforming subsoils. Trudy NII osn. i fund.
no.17:5-14 '52. (MLRA 9:9)
(Soil stabilization) (Foundations)

ZEDNOV, Vladimir Sergeevich; KUSKOV, Lev Sergeevich; LAVRINOVICH, Lev Petrovich; MBZHNEV, Dmitriy Ivanovich; POROCHKIN, Yevgeniy Makarovich; NEMYANTSEV, Aleksandr Mikhaylovich; SVETLOV, Mikhail Fedorovich; YARUSTOVSKIY, Andrey Aleksandrovich; RZHANITSYN, N.A., kandidat tekhnicheskikh nauk, redaktor; VINOGRADOVA, N.M., redaktor izdatel'stva; S. LAZKOV, N.P., tekhnicheskij redaktor

[Operation of hydraulic engineering installations] Eksploatatsia gidrotekhnicheskikh sooruzhenii. Pod red. N.A. Rshanitsyna. Moskva, Izd-vo "Tekhnol transport," 1956. 406 p. (MLRA 10:2)
(Hydraulic engineering)

Name: RZHANITSYN, Nikolay Aleksandrovich

Dissertation: Complex characteristics of natural
river-bed streams and their application
in river hydraulic engineering

Degree: Doc Tech Sci

Affiliation: Central Sci Res Inst of Economics and
Operation of Water Transport

Defense Date, Place: 11 Dec 56, Council of Moscow Order of
Labor Red Banner Engineering-Construction Inst imeni Kuybyshev

Certification Date: 21 Sep 57

Source: BMVO 22/57

**SADOVSKIY, Georgiy L'vovich; GRIGOR'YEV, S.N., redaktor; RZHANITSYN, N.A.,
retsenzent; DENISOVICH, P.A., retsenzent; VINOGRADOVA, N.M., re-
daktor izdatel'stva; KRASNAYA, A.K., tekhnicheskii redaktor.**

[Major dredging of sandbanks] Kapital'nye dnouglubitel'nye raboty
na perekatakh. Moskva, Izd-vo "Rechnoi transport", 1956. 128 p.
(Dredging) (MIRA 9:6)

RZHANITSYNA, A.R., red.; VILKOV, G.N., red. izd-va; KASIMOV, D.Ya.,
tekh. red.

[Studies of structural mechanics] Issledovaniia po stroitel'-
noi mekhanike; sbornik statei. Pod red. A.R.Rzhanitsyna. Mo-
skva, Gosstroizdat . No.5. 1962. 174 p. (MIRA 15:8)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut stroi-
tel'nykh konstruksii.
(Structures, Theory of)

RZHANITSYNA, I. S. Doo Biol Sci -- "For the comparative topography and neuro-
histology of the integument of agricultural animals (~~large~~ cattle, sheep, ^{hogs} ~~pigs~~)."
Troitsk, 1960 (Min of Agriculture RSFSR. Len State Vet Inst). (KL, 1-61, 186)

MOSKVIN, L.N.; PREOBRAZHENSKIY, B.K.; RZHANITSYNA, L.N.

Use of ion exchange resins as aqueous phase carriers in partition chromatography. Separation of Zn, Cd, and Hg. Radiokhimiia 5 no.3:299-304 '63. (MIRA 16:10)

(Ion exchange resins)
(Chromatographic analysis)
(Metals--Analysis)

"Results of Photographic Photometry of the Bright Region Argir on Mars."

Report presented at the Plenary Meeting of the Committee of Planetary Physics,
Council of Astronomers, Khar'kov, 20-22 May 1958.
(Vest. Ak Nauk SSSR, 1958, No. 8, p. 113-114)

3,1550
3,1240

69862
SOV/35-59-9-7233

Translation from: Referativnyy zhurnal, *Astronomiya i Geodeziya*, 1959, Nr 9, p 58 (USSR)

AUTHOR: Rzhanitsyna, O.B.

TITLE: Photographic Photometry of the Bright Argyre Region on Mars in August 1956

PERIODICAL: *Astron. tsirkulyar*, 1958, May 8, Nr 191, pp 9 - 11

ABSTRACT: The study was carried out on the negative obtained at the observatory of the Stalingrad Planetarium by the VAGO expedition (RZhAstr., 1957, Nr 11, 9051). In order to determine the relative albedo, 62 photographs in the regions of the spectrum at λ 6300, 6100, 5900 and 5490 were selected. The measurements were taken on the MF-4³ microphotometer. The results are expressed in the form of the ratio of the brightness of the Argyre (I_A) region to the brightness of the Northern continent (I_M) at the same distance from the center of the disk, and are given in tables. The maximum increase in the brightness of Argyre took place on August 27, when it amounted to 27% in red and 17% in yellow ones, after which a slow decrease of brightness took place. In the green rays two maxima of the brightness of Argyre were observed on August 25 and August 30.

Card 1/1

I.I. Lebedeva

4

RZHANITSINA, I.S. (Troitsk)

Bicellular neural cells. Usp. sovr. biol. 38 no.1:130-132 J1-Ag '54.
(NEURONS, (MIRA 7:10)
bicellular)

RZHANNIKOV, N.

More attention to public control. Bezop. truda v prem. 1 no.2:36 P '57.

(MIRA 10:4)

**1. Obshchestvennyy inspektor, Predsedatel' komissii okhrany truda
tsenkhoma shakhty "Magnititovaya" Vyshegorskogo rudnika.**

(Mining engineering--Safety measures)

GURKOV, K.S., kand.tokhn.nauk; KOSTYLEV, A.D., kand.tokhn.nauk;
PLEKHANOV, G.V., gornyy inzh.; CHERNOGOLOV, Ye.K., gornyy inzh.;
RZHANNIKOV, N.N., gornyy inzh.

New loading and transporting machine. Gor.zhur. no.2:57-59 F
'64. (MIRA 17:4)

1. Institut gornogo dela Sibirskogo otdeleniya AN SSSR (for Gurkov,
Kostylev). 2. Vysokogorskiy zheleznyy rudnik (for Plakhanov,
Chernogolov, Rzhannikov).

AUTHOR: Rzhanov, A. (Director of institute; Corresponding member AN SSSR); Sinitza, S. (Candidate of physico-mathematical sciences)

ORG: none

TITLE: Physicists grow monocrystals [Semiconductor and laser research at the Institute of Semiconductor Physics of the Siberian Department of the Academy of Sciences, USSR]

SOURCE: Nauka i tekhnika, no. 1, 1967, 18

TOPIC TAGS: semiconductor, laser, gas laser, laser research, semiconductor research, *SINGLE CRYSTAL FILM, SINGLE CRYSTAL GROWING*

ABSTRACT: In the semiconductor field, efforts are being concentrated on growing single crystal films with specified characteristics on various semiconductor, metal, and dielectric substrates. Investigations are being made of crystallization, elementary semiconductors (e.g., germanium and silicon), and dual semiconductor systems (gallium and indium arsenides, etc.). Special studies are being made of problems stemming from surface effects and processes on the crystal-substrate boundary. Structural defects occurring during the growth process or introduced later by thermomechanical action are being investigated. A new microtron, the first in the Soviet Union to be used for the solution of solid-state

Card 1/2

UDC: none

ACF ID: A7605925

problems, has been installed. Studies of elect. 1-photon interaction in a number of semiconductors are now under way. Such studies will be helpful in developing electro-acoustic transducers. In the laser field, the main problem under investigation is the mechanism of elementary processes in the active medium. A thorough understanding of the interactions of atoms, ions, and electrons in a plasma and the kinetics of the electromagnetic field within the medium is considered basic to the improvement of the efficiency, power, and monochromaticity of gas lasers. Another series of investigations concerns nonlinear optics, and is aimed at widening the frequency range of coherent emission, and modulation and demodulation of the emission in the optical range. Reference is made to the 1965 All-Union Conference on Nonlinear Optics, which demonstrated the achievements and the possibilities of powerful optical lasers.

[FP]

SUB CODE: 20/ SUBM DATE: none/ ATD PRESS: 5116

RZHANOV, B.

Honorable and patriotic duty. Sov.profsoiuzy 5 no.12:53-57 0 '57.
(MIRA 10:11)

1. Predsedatel' Tsentral'nogo komiteta profsoyuza rabotnikov
kul'tury.

(Soldiers--Recreation)

1. RZHANOV, B.
2. USSR (600)
4. Moving Pictures
7. Improve the work level of trade-union motion picture networks. Klub 2, 1953.

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

2. USSR (600)

4. Communist Education

7. Raise the ideological standard of the work of trade-union cultural institutions, soiuzy. 8 no. 4, 1953.

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

RZHANOV, B.

Pioneers (Communist Youth)

Vacation in a pioneer camp. Rabotnitsa 30, No. 5, 1952

9. Monthly List of Russian Accessions, Library of Congress, August 1952 ~~1953~~ Uncl.

RZHANOV, B., zaveduyushchiy.

Improve the work of workers' clubs. Sov. profsoiuzu 1 no.1:
40-45 5 '53. (MLRA 6:12)

1. Kul'turno-massovyy otdel Vsesoyuznogo tsentral'nogo soveta
professional'nykh soyuzov. (Industrial recreation)

RZHANOV, I.

**Workers decide the problems. Sov. profsoiuzy 6 no.4:50-53 Ap '58.
(MIRA 11:5)**

**1.Zamestitel' predsedatelya zavkoma Leningradskogo Kirovskogo zavoda.
(Leningrad--Works councils)**

W

RZHANOV, I.

Private plans for increasing labor productivity. Sov. profsoiuzy 4
no. 11:43-47 N 156. (MIRA 10:1)

1. Predsedatel' komissii po proizvodstvenno-massovoy rabote
komiteta profsoyuza Kirovskogo zavoda.
(Efficiency, Industrial)

1. REZHANOV, T. S.

2. USSR. (600)

4. Agriculture

7. Field crops of the Trans-Baikal. Chitgiz, 1952.

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

MAMONOV, Ye.I.; RZHANOV, V.G.

Device for experimental pulse investigations of seignettelectric
matrices with semiautomatic selection of addresses. Izv. AN SSSR
Ser. fiz. 24 no.11:1432-1435 N '60. (MIRA 13:12)

1. Institut kristallografii AN SSSR.
(Electronic calculating machines)
(Pulse techniques (Electronics))

85898

S/048/60/024/011/034/036
B006/B060

9.7140

AUTHORS: Mamonov, Ye. I., and Rzhanov, V. G.

TITLE: An Instrument for the Pulsed Experimental Investigation
of Seignettoelectric Matrices With Semiautomatic Address
Selection

PERIODICAL: Izvestiya Akademii nauk SSSR. Seriya fizicheskaya,
1960, Vol. 24, No. 11, pp. 1432 - 1435

TEXT: This is the reproduction of a lecture delivered at the Third
Conference on Ferroelectricity which took place in Moscow from
January 25 to 30, 1960. The practical use of seignettoelectric materials
as quick-acting storage cells requires the prior examination of the
behavior of such cells under the action of different pulses. The
authors describe an instrument developed for the experimental study
of seignettoelectric matrices and elements in pulsed switching operation.
Fig. 1 shows the block diagram and the time chart of the voltage pulses.
Fig. 2 illustrates the circuit of the output amplifier, and Fig. 3

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An Instrument for the Pulsed Experimental
Investigation of Seignettoelectric
Matrices With Semiautomatic Address Selection

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B006/B060

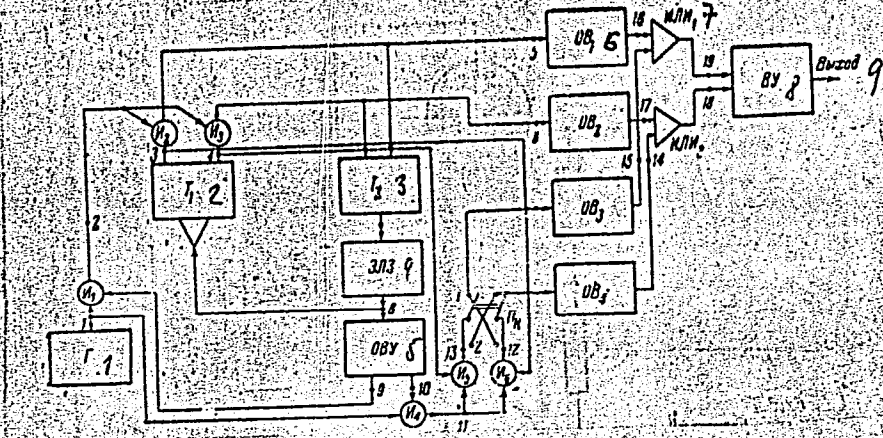
shows one of the forms of pulse sequences from the output amplifier. Fig. 4 is a picture of the external view of the whole instrument, and Fig. 5 shows oscillograms of signals at the matrix output. The following characteristics of seignettoelectric matrices and elements can be recorded with the aid of this instrument: a) rate of pole reversal processes and their dependence on pulsed electric fields, pulse sequence frequencies, thickness, and other parameters of matrices under different conditions; b) thresholds of pulsed fields in pole reversal under different conditions; c) conservation of information under the action of different depolarizing pulses; d) signal-to-noise ratio and degree of unipolarity of hysteresis; e) degree of topographic homogeneity of different electrical properties of seignettoelectric matrices; f) reciprocal effect of switched matrix elements, and a number of other matrices. The authors thank I. S. Zheludev for valuable advice. There are 5 figures.

ASSOCIATION: Institut kristallografii Akademii nauk SSSR
(Institute of Crystallography of the Academy of
Sciences USSR)

Card 2/5

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B006/B060



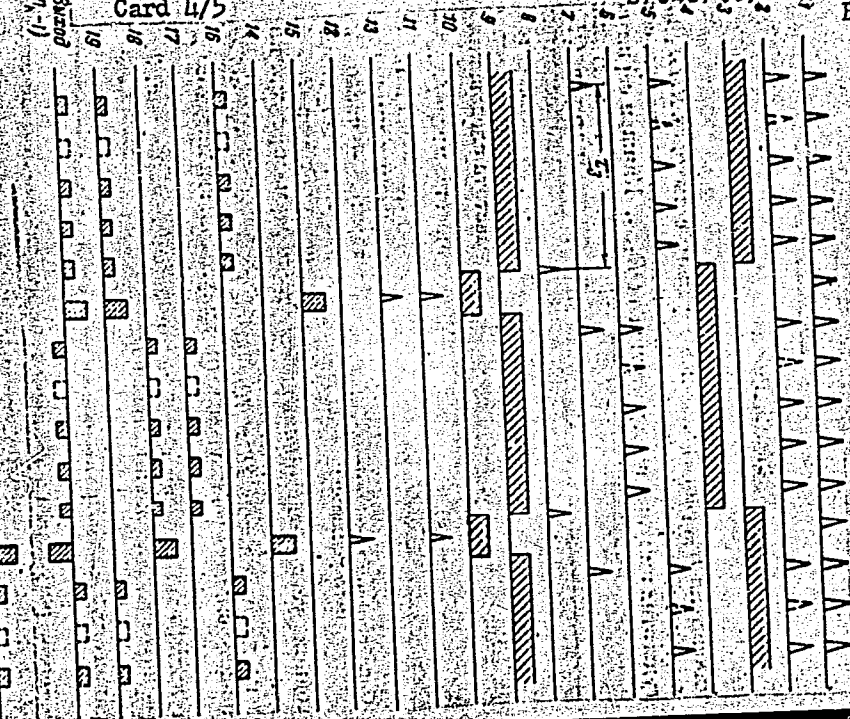
Card 3/5

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B006/B060

Card 4/5

Воздух (0,2)
Воздух (0,1)
Пис. 4. Ввод-схема управления и аппаратура управления



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B006/B060

Legend to Fig. 1: (1) Synchronizing generator, (2) control trigger,
(3) delay trigger, (4) electronic delay line, (5) control univibrator
(pulse sequence), (6) four forming univibrators, (7) type of a circuit,
(8) output amplifier, (9) output, (10) output.
Legend to Fig. 2: output amplifier (No. 7, Fig. 1): (1) input I
(channel 19), (2) input II (channel 18), (3) output.

Card 5/5

Dissertation: "The Formation of the Organs of Fertility in Perennial Podder Grasses (Meadow Timothy, Upland Rye Grass, Meadow Fescue, Beardless Military Grass)." Cand Biol Sci, Moscow Order of Lenin State U imeni M. V. Lomonosov, 25 Jun 54. (Vechernyaya Moskva, Moscow, 16 Jun 54)

SO: SUM 318, 23 Dec 1954

GORYUNOVA, S.V.; ODOYEVSKAYA, N.S.; ORLEANSKIY, V.K.; RZHANOVA, G.N.;
PUSHEVA, M.A.

Blue-green algae as nitrogen fixators and their practical use.
Izv. AN SSSR Ser. biol. 30 no.1:88-102 Ja-F '65.

(MIRA 18:2)

1. Institute of Microbiology, Academy of Sciences of the U.S.S.R.,
Moscow.

RZHANOVA, G.N.; GORYUNOVA, S.V.

Amino acid composition of the blue-green alga *Phormidium uncinatum* (AG) Gom. Mikrobiologiya 34 no.2:268-272 Mr-Ap '65. (MIRA 18:6)

1. Institut mikrobiologii AN SSSR.

APPROVED FOR RELEASE UNDER E.O. 13526
1-26-2008
SCIB 02 DA-RDP86-00513R00146530015-7
CIA-RDP86-00513R00146530015-7

ACC NR: AP6017703

SOURCE CODE: UR/0220/65/034/002/0268/0272

AUTHOR: Rzhanova, G. N.; Goryunova, S. V.

ORG: Institute of Microbiology, AN SSSR (Institut mikrobiologii AN SSSR)

TITLE: Amino acid composition of blue-green algae Phormidium uncinatum (AG) Gom.

SOURCE: AN SSSR. Mikrobiologiya, v. 34, no. 2, 1965, 268-272

TOPIC TAGS: algae, amino acid, protein, paper chromatography, ion exchange resin, plant chemistry

ABSTRACT: The amino acid composition of the blue-green alga Phormidium uncinatum (AG) Gom. isolated from Lake Pleshcheyevskoye in Yaroslavl'skaya Oblast, was investigated as part of a proposed study of Cyanophyceae from this standpoint. In regard to the total content of amino acids, P. uncinatum was as good a potential source of protein raw material as green protococcal algae. They had a higher content of basic amino acids (histidine, lysine, and arginine) than algae of other species; the amount of these acids present correspond to 1/3 of the total amino-acid nitrogen. The content of arginine (26.40% of the total N) was particularly high. To separate the amino acids, chromatography on a Dowex sulfopolystyrene cation exchange resin was used. This method proved superior to chromatography on columns with starch or paper chromatography, particularly because preliminary desalting of the material was not required. Orig. art. has: 1 figure and 3 tables. [JPRS]

SUB CODE: 06, 07, / SUBM DATE: 26Feb64 / ORIG REF: 003 / OTH REF: 007
Card 1/1 90 UDC: 582.22-119.22

GORYUNOVA, S.V.; RZHANOVA, G.N.; OVSYANNIKOVA, M.N.; ORLEANSKIY, V.K.;
KABANOV, V.V.

Role of synchronous cultures in the study of the biology of
Chlorella and their practical use. Mikrobiologiya 31 no.6:
1107-1121 N-D '62. (MIRA 16:3)

1. Institut mikrobiologii AN SSSR.
(ALGAE—CULTURES AND CULTURE MEDIA)

GORYUNOVA, S.V.; RZHANOVA, G.N. (Moskva)

State and prospects for the development of methods of fluorescence
analysis in hydrobiology. Usp.sovr.biol. 51 no.3:369-378 My-Je
(MIRA 14:6)

(61.

(FLUORESCENCE MICROSCOPY)

(HYDROBIOLOGY)

YEVREINOVA, T.M., BOVA, I.A., RZHANOVA, G.N.

Purine and pyrimidine bases of the mesophilic variant of *Bacillus mycoides* Flugge. Nauch.dokl.vys.shkoly; biol.nauki no.1:168-173 (MIRA 11:8)
'58

1 Predstavlena kafedroy biokhimii rasteniy Moskovskogo gosudarstvennogo universiteta im. M.V. Lomonosova.
(BACILLUS MYCOIDES)
(PURINE)
(PYRIMIDINES)

ACC NR: AP6013989

SOURCE CODE: UR/0216/65/000/001/0088/0102

AUTHOR: Goryunova, S. V.; Odoyevskaya, N. S.; Orleanskiy, V. K.
Orleanskiy, V. K.; Rahanova, G. N.; Pushova, H. A.

ORG: Institute of Microbiology, AN SSSR, Moscow (Institut mikrobiologii AN SSSR) 34
B

TITLE: Nitrogen-fixing blue-green algae and their practical utilization

SOURCE: AN SSSR. Izvestiya. Seriya biologicheskaya, no. 1, 1965, 88-102

TOPIC TAGS: algae, nitrogen, fertilizer

ABSTRACT: The author describes the current theories of the process of nitrogen fixation by blue-green algae, the role of these algae in promoting the fertility of irrigated crops; a role that is only beginning to be explored, and the techniques and equipment for using these algae as fertilizer. Owing to the successful growth of these algae in bacteriologically pure cultures as well as the use of such research methods as the isotope method and the production of cell-free preparations, at present the range of investigations of the specificity of the process of assimilation of elementary nitrogen by these organisms has been greatly broadened. Intensive searches for active species and strains in nature as well as the development of techniques of mass-culturing of blue-green algae have opened new vistas for their direct utilization in irrigated farming. The extensive natural

Card 1/2

ACC NR: AP6013989

occurrence of blue-green algae and the tried and tested experience of Asian farmers in using them as a valuable fertilizer, as well as the possibility of utilizing solar energy by means of these algae, cause them to rank first among the microorganisms potentially useful to promoting crop fertility in the national economy. Orig. art. has: 4 figures and 2 tables. [JPRS]

SUB CODE: 06, 02 / SUBM DATE: 13Dec63 / ORIG REF: 022 / OTH REF: 037

Card 2/2 *Jo*

SHUL'GIN, I.A.; KLESHIN, A.F.; RZHANOVA, T.B.; KHAZANOV, V.S.

Brightness of differently oriented leaves. Nauch. dokl. vys.
shkoly; biol. nauki no.3:150-156 '63. (MIRA 16:9)

1. Rekomendovana Institutom fiziologii rasteniy im. K.A.Timiryazeva
AN SSSR, kafedroy darvinizma Moskovskogo gosudarstvennogo
universiteta im. M.V.Lomonosova i Vsesoyuznym nauchno-issledova-
tel'skim svetotekhnicheskim institutom.
(Leaves--Optical properties)

SHULGIN, I.N.; KHAZANOV, V.S.; KLESHNIN, A.F.; RZHANOVA, T.B.

Scattering of radiant energy by plant leaves. Biofizika 6 no.6:734-
739 '61. (MIRA 15:1)

1. Institut fiziologii rasteniy imeni K.A.Timiryazeva, Moskva
i Vsesoyuznyy nauchno-issledovatel'skiy svetotekhnicheskiy institut.
(PLANT PHYSIOLOGY) (RADIATION-SCATTERING)

SHUL'GIN, I. A.; KHAZANOV, V. S.; ~~RZHANOVA~~, T. B.

Ratio of the surface and deep components of light reflected by
plant leaves. Nauch. dokl. vys. shkoly; biol. nauki no.3:133-136
'62. (MIRA 15:7)

1. Rekomendovana kafedroy darvinizma Moskovskogo gosudarstvennogo
universiteta im. M. V. Lomonosova, Institutom fiziologii rasteniy
AN SSSR i Vsesoyuznym nauchno-issledovatel'skim svetotekhnicheskim
institutom.

(LEAVES--OPTICAL PROPERTIES)

RZHANOVA, Ye.I.; AKHUNDOVA, V.A.; PETUKHOVA, V.V.

Importance of stored nutrients in seeds for the development
of some bean plants. Agrobiologiya no.4:501-507 Ji-Ag '65.
(MIRA 18:11)

1. Biolog-pochvennyy fakul'tet, kafedra darvinizma Moskov-
skogo gosudarstvennogo universiteta imeni M.V.Lomonosova.

RZHANOVA, Ye.I.

Some characteristics of the ontogenetic changeability of leguminous plants. *Biul.MOIP.Otd.biol.* 67 no.3:143 My-Je '62. (MIRA 15:11)

(Ontogeny (Botany)) (Leguminosae)

RZHANOVA, Yevdokiya Ivanovna; KUPERMAN, F.M., prof., otv. red.;
DANIL'CHENKO, O.P., red.; YERMAKOV, M.S., tekhn. red.

[Historical survey of views concerning the ontogeny of plants;
lecture from a course in the biology of the development of
plants] Istoricheskiy obzor vzgliadov na ontogenez rastenii;
leksiia dlia studentov zaochnogo i vechernego otdeleniia bio-
logicheskikh fakul'tetov gosudarstvennykh universitetov. Le-
ksiia iz kursa "Biologiya razvitiia rastenii." Moskva, Izd-vo
Mosk. univ., 1962. 55 p. (MIRA 16:1)
(ONTOGENY (BOTANY))

APPROVED FOR RELEASE: Thursday, September 26, 2002

CIA-RDP86-00513R001446530015-2

KUPERMAN, Faina Mikhaylovna, prof.; RZHANOVA, Levdotkiya Ivanovna,
dots.; PARSADANOVA, K.G., red.

[Biology of plant development] Biologiya razvitiia ra-
stani. Moskva, Vysshaya shkola, 1963. 423 p.
(MIRA 17:9)

RZHANOVA, Yevdokiya Ivanovna; KUPERMAN, F.M., prof., otv. red.;
DANIL'CHENKO, O.P., red.; YERMAKOV, M.S., tekhn. red.

[Subject, methods, and problems of the biology of the develop-
ment of higher plants; lecture from a course in the biology of
plant development] Predmet, metody i zadachi biologii razvitiia
vysshikh rastenii; lektsiia iz kursa "Biologiya razvitiia raste-
nii." Moskva, Izd-vo Mosk. univ., 1962. 30 p. (MIRA 16:1)
(Plant physiology)

RZHANOVA, Ye. I. kandidat biologicheskikh nauk, 2

Biological investigation of the growth and development of per-
ennial grasses. Nauka i pered. op. v sel'khoz. 7 no.4:33-35 (MIRA 10:6)
Ap '57.

1. Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova.
(Grasses) (Growth (Plants))

RZHANOVA, Ye.I., kand. biol. nauk; **SHALYGANOVA, O.N.,** kand. biol. nak.

Biological investigation of the growth and development of forage legumes. *Nauka i pered. op. v sel'khoz.* 7 no.10:62-64 0 '57. (MIRA 10:11)

1. Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova (for Rshanova). 2. Ivanovskiy sel'skokhozyaystvennyy institut (for Shalyganova). (Legumes)

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RZHANOVA, Yevdokiya Ivanovna; GOL'TSMAN, G.I.; POMALEN'KAYA, O.T.,

red.isd-va; GECEGIYEVA, G.I., tekhn.red.

[Biological principles of cultivating perennial grasses; formation of organs of fertilization in common timothy, tall oat grass, meadow fescue, and awnless brome grass] Biologicheskie osnovy kul'tury monogoletnikh zlakov; formirovanie organov plodonosheniia u timofaevki lugovoi, raigrasa vysokogo, ovsianitsy lugovoi i kostra bezostogo. [Moskva] Izd-vo Moskovskogo univ., 1957. 148 p. (MIRA 11:4)
(Grasses)

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