

SEMENOV, Ivan Semenovich; YERMOKHIN, Mikhail Matveyevich

[New military statutes] Novye voinskie ustavy. Moskva,  
Voen. izd-vo, 1961. 39 p. (MIRA 18:9)

YERMOKHIN, N., general-major artillerii; VEKSLER, I., p dpolkovnik; SHILOV,  
N. Inzhener-podpolkovnik

Methodological skill plus programmed instruction. Tekh. i vooruzh.  
no.4:36-40 Ap '64. (MIRA 17:9)

~~YERMOLOKHIN V. N.~~

USSR/Cultivated Plants - Potatoes, Vegetables, Melons.

II-5

Abs Jour : Ref Zhur - Biol., No 9, 1958, 39304

Author : Yermoldin, V.N.

Inst : -

Title : The Influence of Deep Soil Cultivation Without Over  
Turning the Soil Layer on the Yield of Vegetable-Melon  
Crops and of Potatoes under Conditions of Irrigated Far-  
ming.

Orig Pub : Sots, s.-kh. Uzbekistana, 1956, No 10, 61-64.

Abstract : Potatoes were planted early (Kubiny No 3 variety) in a  
soil which was plowed to a depth of 40-45 cm without bur-  
ning over the soil layer. The plants developed well and  
the yield increased by 27% in comparison with the same crop  
grown on soil plowed to a depth of 25-27 cm. The experi-  
ment took place at the Uzbek vegetable-potato experiment  
station in 1955. The yield of water melons increased by  
10%. The yield of melon crops went up by 5%.

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USSR/Cultivated Plants - Potatoes, Vegetables, Melons.

M-5

Alt Jour : Red Star - Biol., No 9, 1958, 39304

Potatoes planted in the summer in deeply plowed soil without turning over the layer produced a decrease in yield in comparison with a crop obtained on soil which had been turned over. In this experiment, irrigation had to be used even before the appearance of sprouts. This caused a sagging and tightening in the soil which had been plowed without over turning the layer. Therefore, the plant developed poorly. When the soil was plowed deeply without a moldboard, the contents of nitrates and of free phosphoric acid in the arable and sub-arable horizon down to a depth of 50 cm. increased considerably. -- S.A. Hilitin.

Card 2/2

YERMOKHIN, V.N.

M-3

USSR/Cultivated Plants - Potatoes. Vegetables. Melons.

Abs Jour : Ref Zhur - Biol., No 7, 1958, 29821

Author : Yermokhin, V.N.

Inst  
Title

The Rectangular Double-Row Method of Planting Melons  
on Irrigated Ground

Orig Pub : Sots. s. kh. Uzbekistana, 1957, NO 3, 49-53

Abstract : At the Uzbek Experimental Vegetable and Potato Station, trying out three different methods of planting in 1955 (namely, the square-pocket method with 140 x 140 cm. and 2 plants in each bunch, the rectangular at 140 x 70 cm. with a single plant in each group, planting on the scheme of 280 x 70 cm. in shallow coupled furrows, leaving one plant in a bunch) showed the latter method to yield the best results. The rectangular double-row method of planting in the furrows improved the irrigating set-up and facilitated a melon yield increase in comparison with the

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YERMOKHIN, V.N.

USSR/Cultivated Plants. Potatoes, Vegetables, Melons.

M

Abs Jour: Ref Zhur-Biol., No 17, 1958, 77682.

Author : Yermokhin, V.N.

Inst

Title : New Division into Districts of Varieties of Vegetables and Melon Crops.

Orig Pub: Sots. s.kh. Uzbekistana, 1957, No 8, 73-74.

Abstract: Description is given of new varieties of vegetable and melon crops put into the districts of the Uzbek SSR in 1957: salt cucumbers Kuylyukskiy 262, cabbage Tashkenteskaya 10 for the middle and late periods of planting, and Samarkand white watermelon.

Card : 1/1

Y z R m o K H H V. V.

11(8) PHASE I BOOK EXHIBITION NOV/2005

Baku. Azerbaydzhanskij nauchno-issledovatel'skiy institut nefte-  
parabatyryuchnyy proklyannosti isani V. V. Kuyayeva.  
Sbornik trudov, vyp. 2. (Collection of Works, No. 2) Baku,  
Asneftstat, 1958. 373 p. Errata slip inserted. 500  
copies printed.

Additional Sponsoring Agency: Azerbaydzhun. Ministerstvo neftyanoy  
promyshlennosti.

Ed. of Publishing House: T.B. Al'tman; Editorial Board: V.S. Aliyev,  
Candidate of Chemical Sciences, V.S. Gutyra, Doctor of Chemical  
Sciences, A.M. Kuliyaev, Doctor of Chemical Sciences, M.A. Ismailov,  
Candidate of Chemical Sciences, V.Ya. Maslennikov, Candidate of  
Chemical Sciences, I.D. Gulyanov, Candidate of Technical  
Sciences, A.M. Ismailov, Candidate of Chemical Sciences, M.A. Al'  
tan, Candidate of Chemical Sciences, I.M. Gulyanov, Candidate  
of Technical Sciences, M.M. Melnikova, Candidate of Chemical  
Sciences.

FOREWORD: This collection of articles is intended for chemical  
engineers, technicians, and refiners concerned with advanced  
methods of petroleum conversion.

COVERPAGE: The collection presents an analysis of different  
types of crudes extracted in Azerbaydzhun and of the products  
recovered from these crudes through petroleum conversion  
processes. The desulfuring, desalting and demulsifying of crudes  
is described and the suitability of these crudes for the  
cracking of diesel fuels is discussed. Results of catalytic  
cracking performed on fluidized bed synthetic catalyst  
and the chemical composition of gasoline produced by two-  
stage catalytic cracking are analyzed. Attention and desulfur-  
tion of catalysts as well as catalytic cracking in a hyper-  
flow system are reviewed. Various lubricating oils and  
the production of different types of oils and of a black  
are outlined. References accompany individual articles.

Maslennikov, V.Ya., M.M. Melnikova, K.I. Gulyanov, M.A. Ismailov,  
and A. Arutunov. Preliminary Treatment of Baku Crude for  
Refining 16

Aliyeva, S.M., V.Ya. Maslennikov, A.D. Ismailov, A.Y. Ismailov  
(deceased), M.A. Kuliyaev, M.M. Melnikova, A.M. Ismailov  
(deceased), S.I. Gulyanov. Azerbaydzhun Crudes as a Raw Material  
Source for Diesel Fuels 34

Maslennikov, V.S., Gutyra, and D.I. Zulfargaliyev. Effect of  
Certain Conditions of Catalytic Cracking Performed Over a Fluorinated  
Synthetic Silica Alumina Catalyst on the Formation of Aromatic  
Hydrocarbons in Gasoline 44

CASE 38

SOV/81-59-10-36392

Translation from: Referativnyy zhurnal. Khimiya, 1959, Nr 10, p 438 (USSR)

AUTHORS: Agayeva, S.M., Yermokhin, V.V., Ismaylov, A.G., Kudinov, A.V., Kupriy-  
nova, L.A., Nadirova, M.N., Terteryan, A.B., Terteryan, S.A.

TITLE: The Petroleum of Azerbaydzhan as Raw Material Source for the Production  
of Diesel Fuels

PERIODICAL: Sb. tr. Azerb. n.-i. in-t neftepererabat. prom-sti, 1958, Nr 2, pp 34-43  
(Azerbaydzhanian summary)

ABSTRACT: The results of an investigation are cited which had the aim of obtaining high-quality diesel fuel for high-speed diesel engines from Azerbaydzhan petroleum. Petroleum samples of 24 layers were subjected to laboratory fractionation followed by selecting the 10°C fractions within the temperature range of 130 - 400°C. The obtained fractions were then subjected to physical-chemical analysis for determination of indices characterizing the operational properties of the fuels: cetane number, fraction composition, viscosity, turbidity and pour points, etc. Based on the investigation the classification of the principal types of Baku petroleum has been carried out with regard to obtaining diesel fuels from them. The resources

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SOV/81-59-10-36392

The Petroleum of Azerbaydzhan as Raw Material Source for the Production of Diesel Fuels

and the qualities of these fuels have been determined and a State Standard GOST for high-speed diesel fuels has also been developed.

V. Kel'tsev

Card 2/2

TKACHEV, Roman Yakovlevich; NAMESTNIKOV, A.P., spets.red.;  
YEREMKHINA, N.V., red.; KISINA, Ye.I., tekhn. red.

[Equipment for canning green peas] Oborudovanie dlia  
konservirovaniia zelenogo goroshka. Moskva, Pishche-  
promizdat, 1963. 118 p. (MIRA 16:7)  
(Peas, Canned)

DIKIY, Boris Fedorovich; LOMAKIN, Vladimir F. Ippovich; DREVS,  
G.V., dots., retsenzent; ZAYCHIK, TS.R., inzh.,  
retsenzent; YEMOKHINA, N.V., red.

[Automation of the processes in wine making] Avtomati-  
zatsiia protsessov vinodeliia. Moskva, Pishchevaia pro-  
myshlennost', 1964. 365 p. (MIRA 17:9)

VLASOV, Petr Fedorovich; KOMAROV, V.S., inzh., retsenzent;  
YERMONKHINA, N.V., red.; KISINA, Ye.I., tekhn. red.

[Ventilation, air-conditioning and pneumatic conveying in tobacco factories] Ventilatsiia, konditsionirovanie vozdukh i pnevmaticheskii transport na tabachnykh fabrikakh. Moskva, Pishchepromizdat, 1963. 155 p. (MIRA 16:12)  
(Pneumatic conveying) (Tobacco industry)

ANTOKOL'SKAYA, Mir'yam Yakovlevna; BRONSHTeyN, Isaak Iosifovich;  
MARTYNOV, Mikhail Ivanovich; SMIRNOV, Anatoliy Fedorovich;  
SHKLOVSKAYA, Anna Yevgen'yevna; ZHURAVLEVA, Ye.I., retsenzent;  
SOLOMONOV, P.I., retsenzent; YERMOKHINA, N.V., red.;

[Manual on raw materials, intermediate products and finished  
products in confectionery; manufacture; physicochemical  
characteristics] Spravochnik po syr'iu, polufabrikatam i go-  
tovym izdeliham konditerskogo proizvodstva; fiziko-khimiche-  
skie kharakteristiki. Moskva, Izd-vo "Pishchevaia promyshlen-  
nost'," 1964. 229 p. (MIRA 17:5)

SHTROMBERG, Ya.A.; KALINUSHEKIN, M.P., prof., retsenzent; DZHALAGANIYA, K.I.,  
inzh., retsenzent; YERMOKHINA, N.Y., red.  
[Ventilation and the air conditioning in the tea  
processing industry] Ventilatsiya i konditsionirovanie  
vozdukh v chaeobrabatyvaiushchei promyshlennosti. Mo-  
skva, Izd-vo "Pishchevaia promyshlennost'," 1964. 217 p.  
(MIRA 17:6)

PERTSOVSKIY, Yevgeniy Solomonovich; SHUBIN, Anatoliy Stepanovich;  
RACHINSKIY, V.V., prof., retsenzent; KARDASHEV, A.V.,  
kand. tekhn.nauk, retsenzent; YERMOKHINA, N.V., red.

[Use of atomic energy in the food industry] Primenenie  
atomnoi energii v pishchevoi promyshlennosti. Moskva,  
Pishchevaia promyshlennost', 1964. 398 p.  
(MIRA 18:3)

*Yermokhina, T.M.*

YERESINOVA, T.M.; YERMOKHINA, T.M.

Lipids of sewage waters. Vest. Mosk. un. Ser. biol., pochv., geol.,  
geog. 12 no. 4: 63-73 '57. (MIRA 11:5)

1. Kafedra biokhimii rasteniy Moskovskogo gosudarstvennogo uni-  
versiteta.

(Lipids) (Sewage—Analysis)



YEVREINOVA, T.N.; MASLOVA, S.V.; YERMOKHINA, T.M.; SIZOVA, T.P.

Effect of temperature on nucleic acids of *Aspergillus fumigatus*.  
Mikrobiologiya 29 no. 4:516-522 J1-Ag '60. (MIRA 13:10)

1. Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova.  
(ASPERGILLUS) (NUCLEIC ACIDS)  
(TEMPERATURE—PHYSIOLOGICAL EFFECT)

YERMOKHINA, T.M.; ZAYTSEVA, G.N.; BELOZERSKIY, A.N., akademik

Specificity of methionine activating enzymes and ribonucleic acids  
accepting methionine in various species of microorganisms. Dokl.  
AN SSSR 149 no.6:1438-1442 Ap '63. (MIRA 16:7)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.  
(Methionine) (Nucleic acids) (Enzymes)

YERMOKHINA, T.M.; ZAYTSEVA, G.N. ; ZERNOVA, L.I.; BELOZERSKIY, A.N.,  
akademik

Some data on the "species" of sRNA and aminoacyl-sRNA-synthetases  
in micro-organisms. Dokl. AN SSSR 159 no.5:1165-1168 D '64  
(MIRA 18:1)

1. Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova.

YERMOKHINA, T.M.; STAMBOLOVA, M.A.; ZAYTSEVA, G.N.; KHAZERSKIY, A.N.,  
akademik

Species specificity of "soluble" RNA and aminoacyl-RNA-synthetases  
in some plants. Dokl. AN SSSR 164 no.3:688-691 S '65.

(MIRA 18:9)

1. Moskovskiy gosudarstvennyy universitet.

ACC NR: AP6033277

SOURCE CODE: UR/0020/66/170/004/0974/0977

AUTHOR: Yermokhina, T. M.; Mekhanik, M. L.; Zaytseva, G. N.; Belozerskiy, A. N. (Academician)

ORG: Moscow State University im. M. V. Lomonosov (Moskovskiy gosudarstvennyy universitet)

TITLE: Investigation of phenylalanyl-RNA-synthetase and phenylalanine sRNA in yeasts and insects

SOURCE: AN SSSR, Doklady, v. 170, no. 4, 1966, 974-977

TOPIC TAGS: enzymology, RNA, RNA synthesis, ~~enzyme~~, cell physiology, ~~metabolic research~~, biochemistry, *insect, enzyme, yeast*

ABSTRACT: The possible heterogeneity of phenylalanyl-RNA synthetases and their corresponding sRNA's was investigated using insect and microbial materials as sources of biochemicals. Cellular extracts of very high purity were obtained using standard methods. The enzymes from insect larvae and yeasts were separated into two components on a DEAE cellulose column and their physical properties and enzyme action determined using radioactive tracer methods. Two corresponding sRNA fractions were also separated, enzyme E<sub>1</sub> aminoacylates phenylalanine with RNA<sub>II</sub> and enzyme E<sub>2</sub>—RNA<sub>I</sub>. In the protein fraction a third enzyme E<sub>3</sub>

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UDC: 547.963.3

ACC NR: AP6033277

appeared, but two corresponding  $C^{14}$ -phenylalanyl RNA's were discovered, a case of one enzyme governing the formation of two slightly different sRNA's.  $E_1$  was species specific being found only in extracts from flies. The existence of other sets of general heterogeneous and species specific enzymes are postulated for other organisms. Orig. art. has: 3 figures. [W.A. 50]

SUB CODE: 06/ SUBM DATE: 29Jun66/ ORIG REF: 004/ OTH REF: 015

Card 2/2

ACC NR: AP6033277

SOURCE CODE: UR/0020/66/170/004/0974/0977

AUTHOR: Yermokhina, T. M.; Mekhanik, M. L.; Zaytseva, G. N.; Belozerskiy, A. N. (Academician)

ORG: Moscow State University im. M. V. Lomonosov (Moskovskiy gosudarstvennyy universitet)

TITLE: Investigation of phenylalanyl-RNA-synthetase and phenylalanine sRNA in yeasts and insects *lp*

SOURCE: AN BSSR. Doklady, v. 170, no. 4, 1966, 974-977

TOPIC TAGS: enzymology, RNA, RNA synthesis, ~~enzyme~~, cell physiology, ~~molecular biology~~, biochemistry, *insect, enzyme, yeast*

ABSTRACT: The possible heterogeneity of phenylalanyl-RNA synthetases and their corresponding sRNA's was investigated using insect and microbial materials as sources of biochemicals. Cellular extracts of very high purity were obtained using standard methods. The enzymes from insect larvae and yeasts were separated into two components on a DEAE cellulose column and their physical properties and enzyme action determined using radioactive tracer methods. Two corresponding sRNA fractions were also separated, enzyme E<sub>1</sub> aminoacylates phenylalanine with RNA<sub>II</sub> and enzyme E<sub>2</sub>—RNA<sub>I</sub>. In the protein fraction a third enzyme E<sub>3</sub>

Card 1/2

UDC: 547.963.1

ACC NR: AP6033277

appeared, but two corresponding C<sup>14</sup>-phenylalanyl RNA's were discovered, a case of one enzyme governing the formation of two slightly different sRNA's. E<sub>1</sub> was species specific being found only in extracts from flies. The existence of other sets of general heterogeneous and species specific enzymes are postulated for other organisms. Orig. art. has: 3 figures. [W.A. 50]

SUB CODE: 06/ SUBM DATE: 29Jun66/ ORIG REF: 004/ OTH REF: 015

Card 2/2



TOROPOV, A.P.; YERMOKHINA, V.A.

Viscosity of systems with ethyl stearate. *Uzb.khim.zhur*  
no.3:36-40 '61. (MIRA 14:11)

1. Tashkentskiy gosudarstvennyy universitet imeni Lenina.  
(Stearic acid)  
(Systems(Chemistry))

CHUCHULIN, P.P.; YERMOLAYEV, A., ofitser-topograf zapasa (g.Ul'yanovsk);  
PETRENKO, V.V. (g.Odessa)

Problems requiring discussion. Geog.v shkole 22 no.3:76-80  
My-Je '59. (MIRA 12:11)

1. Kabardino-Balkarskaya ASSR (for Chuchulin).  
(Geography--Study and teaching)

YERMOLAYEV, A.

USSR / Farm Animals. Cattle.

Q

Abs Jour : Ref Zhur - Biologiya, No 2, 1959, No. 7351

Author : Yermolayev, A.

Inst : Not given

Title : The Milk's Fat Content in the Bestuzhevskiy  
Breed Cattle in Bashkiria

Orig Pub : Molochn. i myasn. zhivotnovodstvo, 1958, No  
3, 45-48

Abstract : No abstract given

Card 1/1

13

YERMOLAYEV, A.

YEGOROV, L.; YERMOLAYEV, A.; MIKHAYLYUTA, D.

The ZIL-164 motortruck. Avt. trapp. 35.no.3:26-29 Nr '57.  
(MIRA 10:5)

1.Moskovskiy avtomobil'nyy saved in. I.A. Likhachev.  
(Motortrucks)

LOSHCHAGINA, Ye.; YERMOLAYEV, A.

Contribution of innovator N.F.IAanchevskii. Mashinostroitel'  
no.8:3 Ag '62. (MIRA 15:8)  
(Milling machines--Technological innovations)

YERMOLAYEV, A.; LOSHCHAGINA, Ye.

G.M. Komarov's helical cutter. Mashinostroitel' no.2:24 F '63.

(MIRA 16:3)

(Metal-cutting tools)

PHASE I BOOK EXPLOITATION 719

Yermolayev, Aleksandr Aleksandrovich

Teoreticheskiye osnovy teplotekhniki (Theoretical Principles of Heat Engineering) Moscow, Gosenergoizdat, 1957. 349 p. 10,000 copies printed.

Ed.: Kuz'min, S. I.; Tech. Ed.: Zabrodina, A. A.

PURPOSE: The book is intended as a textbook for schools in power engineering and for technical workers in heat engineering.

COVERAGE: The ~~author~~, a lecturer in heat engineering at the Leningrad Engineering Tekhnicum, presents the principles of heat engineering including thermodynamics and the theory of heat transfer. Part I cites the main laws of thermodynamics theory and shows their application in analyzing cycles of thermal power stations operating on both gas and steam. He dwells on the escape and throttling of gas and vapor, and on moist air properties.

Card 1/11

Theoretical Principles of Heat Engineering

719

Part II of the book deals with the physical principles of heat exchange and the methods of analyzing the operation and design of thermal installations. The author clarifies the subject by citing examples to illustrate the solution of technical problems. The book contains 8 appendices which consist of tables of technical data on power plants. Personalities mentioned include Professor M. D. Vaysman, who reviewed the manuscript, and Professor S. I. Kuz'min, the scientific editor. There are 22 Soviet references.

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PART II, HEAT TRANSMISSION THEORY

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11-25-58

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(Gas turbines)

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retsensent; MEL'NIK, V.A., inzh., red.

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**Experience in ventilating mines after large-scale explosions.**  
**Besop.truda + prom. 1 no.5:10-12 '57. (MLRA 10:7)**

- 1. Unipromed' (for Yermolayev and Ryzhkov). 2. Degtyarskiy rudnik**  
**(for Sidorov).**  
**(Mine ventilation) (Mine explosions)**

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Results of the introduction of suction-type ventilation. Bezop.truda  
v prom. 6 no.8:22-23 Ag '62. (MIRA 16:4)

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YEMOLAYEV, A. A.; LOSHCAGINA, Ye. I.

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no.12:5 D '62. (MIRA 16:1)

(Leningrad—Machinery industry)



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28, 1964.

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(Geography--Study and teaching)

AKUTIN, M.S.; TIKHOMIROVA, N.S.; YERMOLAYEV, A.D.

Preparation of polyformaldehyde by means of radiation polymerization  
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URMAN, Ya.G.; SLONIM, I. Ya.; YERMOLAYEV, A.D.

Nuclear magnetic resonance in the system: polymer in monomer  
matrix. Vysokom. soed. 6 no.11:2107-2108 N '64 (MIRA 18:2)

SLONIM, I.Ya.; URMAN, Ya.G.; YERMOLAYEV, A.D.; AKUTIN, M.S.

Nuclear magnetic resonance in oriented polymers. Part 3: Polyoxymethylene obtained by radiation polymerization. Zhur. strukt. khim. 6 no.2:192-197  
Mk-Ap '65. (MIRA 18:7)

1. Nauchno-issledovatel'skiy institut plastmass.

L 23332-66 EWI(n)/EPF(n)-2/ENP(j)/I/EWA(h)/EWA(1) EG/RM

ACC NR: AP6006979

SOURCE CODE: UR/0120/66/008/002/0251/0255

AUTHORS: Urman, Ya. G.; Slonim, I. Ya.; Yermolayev, A. D.

ORG: Scientific Research Institute of Plastics (Nauchno-issledovatel'skiy institut plasticheskikh mass)

TITLE: Investigation of the radiation polymerization of trioxane in solid phase (4th report in the series "Nuclear magnetic resonance in oriented polymers")

SOURCE: Vysokomolekulyarnyye soyedineniya, v. 8, no. 2, 1966, 251-255

TOPIC TAGS: radiation polymerization, nuclear magnetic resonance, trioxane

ABSTRACT: Oriented radiation-induced polymerization of trioxane in solid phase has been investigated by NMR. This is an expansion of the work published earlier by Ya. G. Urman, I. Ya. Slonim, and A. D. Yermolayev (Vysokomolek. soyed., 6, 2107, 1964). The method for preparing monocrystalline trioxane and for its polymerization was described previously by I. Ya. Slonim, Ya. G. Urman, and A. D. Yermolayev (Zh. struct. khimii, 6, 531, 1965). NMR spectra were taken with a spectrometer of the Central Laboratory of Automation (Tsentral'naya laboratoriya avtomatiki) at the frequency of 20 megahertz at 40°C. Changes in the NMR spectra observed during the solid polymerization process are shown in Fig. 1. It was observed that: 1) during post-polymerization of the irradiated sample at 55°C, the shape and second moment of NMR line change sharply. The position of the sample in the field also has a significant

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UDC: 66.095.26+678.55

L 23332-66

ACC NR: AP6006979

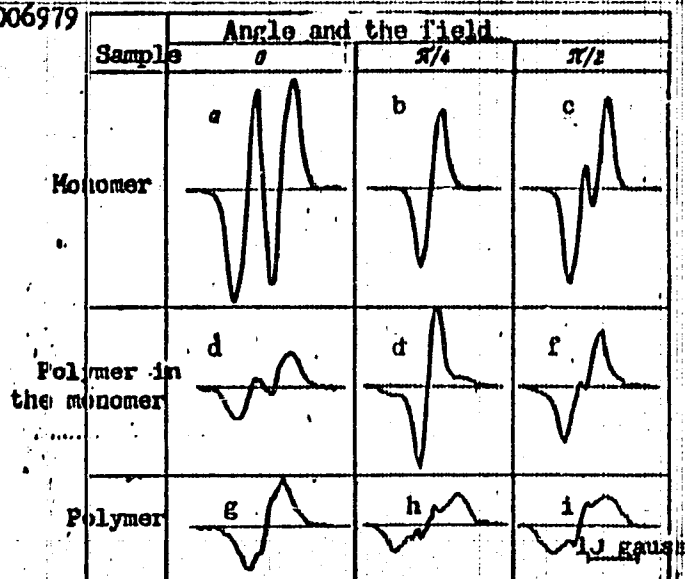


Fig. 1. Shape of NMR lines at  $400^\circ\text{C}$  for three positions of the sample in the magnetic field: a, b, c - trioxane monocrystal; d, e, f - trioxane after irradiation and heating at  $550^\circ\text{C}$  for 80 min; g, h, i - polyoxymethylene, washed of the residual monomer.

effect on the character of NMR: 2) agglomeration of low-molecular products occurs during polymerization, which is responsible for the appearance of a narrow component in NMR. Orig. art. has: 5 figures.

SUB CODE: 07/

SUBM DATE: 27Feb65/

ORIG REF: 010/

OTH REF: 001

Card 2/2 ULR

GREBENYUK, V.A.; PUSTOVALOV, A.I.; YEROFEYEV, I.Ye.; KARABACH,  
T.L.; TURGAMBAYEV, B.M.; BOSYAKOV, P.Ye.; YERMOLAYEV,  
A.G.; FOMENKO, V.D.; YEGOROV, A.A.; CHOMOV, D.I.;  
ZHUYKO, Yu.P.; PANOV, S.A.;

[Twenty-second Congress of the Communist Party of the  
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1. Russia (1917- R.S.F.S.R.) Vostochno-Kazakhstanskiy  
ekonomicheskiy rayon. Zyr'yanovskiy svintsovyi kombinat.



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Making use of industrial potentialities in a mine of communist labor. Gor.zhur. no.1:6-9 Ja '64. (MIRA 17:3)

1. Rudnik imeni XXII s"yezda Kommunisticheskoy partii Sovetskogo Soyuza Zyryanovskogo kombinata.

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V 13971\* Aluminum Alloys in Automotive Construction. Alu-  
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1955, no. 7, July, p. 25-27.  
NG Composition and properties of Al alloys used in different sec-  
tions of automotive industry. Photographs, diagrams. 7 ref.

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Testing and improving constant velocity universal joints for  
automobiles. Avt. i trakt. prom. no.2:17-23 P '57. (MLA 10:3)

1. Moskovskiy avtozavod imeni Likhacheva.  
(Automobiles--Transmission devices)

BUKHARIN, N.A., doktor tekhn. nauk; YERMOLAYEV, A.I.;  
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Evaluation of operational reliability and durability of  
parts and units of a motor vehicle. Avt. prom. 29 no.8:  
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1. Leningradskiy inzhenerno-stroitel'nyy institut i  
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milk fat of <sup>Bestushev</sup> ~~besturhevskiy~~ cows in kolkhozes and sovkhoses  
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DLC: HE2236.E7

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Inspection of documents in railroad transport Izd. 2., ispr. 1 dop. Moskva, Gos.  
transp. zhel-dor. izd-vo, 1950. 202 p. (50-55183)



24(5)

AUTHOR:

Yermolayev, A. M.

SOV/54-58-4-6/18

TITLE:

Expansion of the Wave Functions of Many-electron Systems in Fok Series (Razlozheniye volnovykh funktsiy mnogoelektronnykh sistem v ryady Foka)

PERIODICAL:

Vestnik Leningradskogo universiteta. Seriya fiziki i khimii, 1958, Nr 4, pp 48-64 (USSR)

ABSTRACT:

In 1954, Fok found the form of the expansion of the wave function of the 1S state of a helium atom and helium-like ions. This expansion is a series of whole powers of  $r$  and  $\ln r$ . It was the purpose of this paper to generalize the results obtained by Fok (Ref 1) on the basis of the expansion of the wave functions of many-electron atoms. It is shown that according to the theory of harmonic functions on a hypersphere in the  $3N$ -dimensional configuration space of the system of  $N$  electrons in the nuclear field a wide class of wave functions in the surroundings of  $r = 0$  may be expanded in a double series (7,7). These series are called Fok series. Their coefficients are finite, continuous and simple functions of the spherical angles in each point of the hypersphere. If the logarithm power attains high values al-

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SOV/54-58-4-6/18

Expansion of the Wave Functions of Many-electron Systems in Fok Series

ready in the expansion, this series expansion is a generalization of the well-known expansion ad infinitum of a regular, singular point for the solution of a usual differential equation. The theory under discussion is very complicated for practical use. The expansion may be assumed to be convergent for all finite  $r$ . Further it is determined in a uniform way if the asymptotic expression of the wave function for  $r \rightarrow \infty$  is given; the theory is especially useful for processes in the immediate neighborhood of the nucleus, i.e. the interaction between the electron shell and the nucleus. In conclusion, the author expresses his gratitude to Academician V. A. Fok for valuable advice and to Yu. N. Demkov for assistance and participation in this work. There are 11 references, 3 of which are Soviet.

Card 2/2

24(5)

AUTHORS:

Demkov, Yu. N., Yermolayev, A. M.

SOV/56-36-3-36/71

TITLE:

Fok Expansion for Wave Functions of Systems of Charged Particles (Razlozheniye Foka dlya volnovykh funktsiy sistemy zaryazhennykh ~~chastits~~)

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1959, Vol 36, Nr 3, pp 896-899 (USSR)

ABSTRACT:

Already in 1954 V. A. Fok found out (Ref 1) that the wave function of the  $^1S$ -state of helium and helium-like ions can be expanded in a double series with  $r$ -th and in  $r$ -th degree

( $r = \sqrt{r_1^2 + r_2^2}$ ,  $r_1$  and  $r_2$  - distance of the 1. and 2. electron respectively from the nucleus). Fok also developed a method for the successive determination of development coefficients which turn out to be homogeneous functions of zero-th order of the Cartesian coordinates of the electrons. The authors of the present paper show that such an expansion (which is named after Fok) is of general character and may be applied to any system consisting of an arbitrary number of charged particles. The present paper is intended to generalize the method for such

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Fok Expansion for Wave Functions of Systems  
of Charged Particles

SCV/56-36-3-36/71

systems and for states of any symmetry. The authors proceed from the Schrödinger (Shrodinger) equation of a steady-state wave function in Cartesian coordinates; they then pass on to spherical coordinates in the configuration space and give the solution of this equation in form of a series

$\psi = \sum_n \sum_p a_{np} r^n (\ln r)^p$ . For the  $a_{np}$  a system of equations is then given, which is investigated in the following. For  $n = 1, 2, 3 \dots$  and  $p < n$  the wave function must be set up as

$$\psi = \sum_{n=0}^{\infty} \sum_{p=0}^n a_{np} r^n (\ln r)^p \quad \text{and for } n = 0, 1, 2 \dots k-1 \quad \text{as}$$

$$\psi = \sum_{n=0}^{\infty} \sum_{p=0}^{[n/2]} a_{n+k,p} r^{n+k} (\ln r)^p .$$

Card 2/3

Pok Expansion for Wave Functions of  $S_p$  Ions  
of Charged Particles

307/56-46-3-3 /71

As regards a more detailed investigation of the solution of the system of equations given for the  $a_{sp}$  and also for other problems, reference is made to an article by A. A. Iermol'yev in "Vestnik Leningradskogo universiteta". The authors finally thank V. A. Pok for his valuable advice. There are 4 references, 2 of which are Soviet.

ASSOCIATION: Leningradskiy gosudarstvennyy universitet  
(Leningrad State University)

DATE: September 22, 1956

Card 1/1

YERMOLAYEV, A.M.

Calculation of nonrelativistic S-states of two-electron atoms  
and ions. Vest. LGU 16 no.16:19-33 '61. (MIRA 14:8)  
(Atoms) (Ions)

39870

S/051/62/015/002/009/014  
E032/E314

24.3300

AUTHORS: Yermolayev, A.M., Minkov, I.M. and Vlasov, A.G.

TITLE: A method of calculation of the optical properties of a multilayer coating with a given reflecting power

PERIODICAL: Optika i spektroskopiya, v. 13, no. 2, 1962, 259 - 265

TEXT: The authors consider the design of an n-layer coating with a given reflecting power  $R_N$ , where

$$R_N = R_N(x_0, x_1, \dots, x_N, x_{N+1}, \vartheta, \lambda) \quad (1)$$

$x_j$  are the optical parameters of the media,  
 $\vartheta$  is the angle of incidence, and  
 $\lambda$  the wavelength.

It is required to determine the number of layers  $N$  and the magnitude of the parameters  $x_j$  for which the reflecting power

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A method of ....

S/051/62/015/002/009/014  
E032/E314

$R_N(\lambda)$  in the given wavelength interval and for a given angle of incidence should be described by a given function

$$R_N(x_1, x_2, \dots, x_N, \lambda) = F_0(\lambda) \quad (2)$$

The calculation starts with an assumed approximately known function  $F_0(\lambda)$ , which is denoted by  $R_m$  and contains the arbitrary parameters  $x_j$ . The next approximation is obtained by considering the quantities  $\Phi_m$ ,  $m = m_0, m_0 + 1, \dots$ , which are given by:

$$\Phi_m(\underline{x}) = \int_{\lambda_1}^{\lambda_2} \rho(\lambda) |R_m(\underline{x}, \lambda) - F_0(\lambda)|^k d\lambda, \quad k > 0 \quad (3)$$

In this formula  $\rho(\lambda) > 0$  is a weighting function,

Card 2/3  $\underline{x}$  is a vector whose cartesian coordinates are



S/051/62/015/002/009/014  
EO32/E314

A method of ....

the numerical values of the independent  
parameters  $x_j$  of all the m-layer.

With  $k = 2$  the function  $\Phi_m$  represents the r.m.s. departure  
of  $R_m(\underline{X}, \lambda)$  from the given function  $F_0(\lambda)$ . To each value of  
 $\underline{X}$  there corresponds a certain filter and as  $R_m$  approaches  $F_0$ ,  
 $\Phi_m(\underline{X}) \rightarrow 0$ . The parameters of the multilayer filter are determined  
by varying the components of  $\underline{X}$  until minimum  $\Phi_m(\underline{X})$  is reached..

A complete numerical scheme suitable for use with an electronic  
computer is given and some typical examples are quoted. It is  
assumed that dispersion and absorption are absent but it is said  
that this limitation could easily be removed.  
There are 6 figures and 2 tables.

SUBMITTED: June 8, 1961

Card 3/3

YERMOLAYEV, A.M.; SOCHILIN, G.B.

Ground state / two-electron atoms and ions. Dokl. AN SSSR  
155 no. 5:1050-1053 Ap '64. (MIRA 17:5)

1. Leningradskiy gosudarstvennyy universitet im. A.A.Zhdanova  
i Leningradskoye otdeleniye Matematicheskogo instituta im. V.I.  
Steklova AN SSSR. Predstavleno akademikom V.A.Fokom.

ACCESSION NR: AT4041509

8/2910/63/003/01-/0167/0174

AUTHOR: Yermolayev, A. M., Sochilin, G. B.

TITLE: An exact variational method for computation of the S-states in atoms with two electrons

SOURCE: AN LIUSSR. Litovskiy fizicheskii sbornik, v. 3, no. 1-2, 1963, 167-174

TOPIC TAGS: S state, variational computation method, electron configuration, two electron atom, wave function, Hylleraas equation, variational wave function, helium

ABSTRACT: The variational method is based on Fock's investigation of the Hylleraas equation (Izv. AN SSSR, 18, 161, 1954), a nonrelativistic wave equation for a two-electron atom with infinitely heavy nucleus whose charge is  $Z$ . The variational wave function  $\Psi$  is chosen to be an analytic expression containing variable parameters. This function is chosen so that it represents the behavior of the exact wave function at the potential energy singularities and approaches the same asymptote at infinity. The coefficients of the exponential terms in the wave function expression are then decomposed into Fock's series. Each term of this series is a solution of a certain system of coupled equations on a four-dimensional sphere. The highest term can be determined exactly but the terms of lower order must be obtained from an approximate solution. The resulting variational wave

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ACCESSION NR: AT4041509

function contains arbitrary coefficients of a linear combination of 4-dimensional spherical functions of order  $n = 1, 2, \dots, N + 1$  and accounts for those terms of the Fock's series which describe the behavior of the exact wave function in the vicinity of potential energy singularity. By introduction of auxiliary arbitrary coefficients, the total number of coefficients to be determined is decreased without changing the characteristics of the wave function. The standard Ritz procedure is used to obtain the final solution. An example in which the S state of the helium atom is computed is given. The variational wave function has 30 coefficients and gives a value of energy which could be obtained from a 40-parameter Kinoshita function (T. Kinoshita: Phys. Rev. 105, 1490, 1957 and 115, 366, 1959). The method, as presented in the paper, applies only to two-electron systems in S-states but can be generalized for multi-electron systems. Orig. art. has: 19 equations and 1 table.

ASSOCIATION: Leningradskiy gosudarstvennyy universitet im. Zhdanova (Leningrad State University); Leningradskoye otdeleniye Matematicheskogo instituta im. Steklova (Leningrad Branch of the Steklov Mathematical Institute)

SUBMITTED: 00

ENCL: 00

SUB CODE: NP

NO REF SOV: 003

OTHER: 003

Card

2/3

ACCESSION NR: AP4034536

B/0020/64/155/005/1050/1053

AUTHOR: Yermolayev, A. M.; Sochilin, G. B.

TITLE: Ground State of Two-electron Atoms and Ions

SOURCE: AN SSSR. Doklady\*, v. 155, no. 5, 1964, 1050-1053

TOPIC TAGS: ground atomic state, two electron atom, two electron ion, S state, wave function, numerical computation, quantum mechanics

ABSTRACT: V. A. Fock (Izv. AN SSSR, ser. fiz. 18, 161 (1954)) has given a rigorous method for analysis of the S-state in the vicinity of the singular points. The present authors apply his method for numerical computation of the ground state of H, He, Li<sup>+</sup>, Be<sup>2+</sup>, Be<sup>3+</sup>, O<sup>8+</sup> and Ne<sup>9+</sup>. The expansions used converge rapidly (they have about 30 parameters). The numerical computations were made with the BECM-2 computer of the computer Center of the Leningrad Division of the Mathematical Institute AN SSSR. "The authors are grateful to acad. V. A. Fock for discussions and comments, and to Yu. N. Demkov for discussions." Orig. art. has: no figures, 4 equations, 2 tables.

Card 1/2

ACCESSION NR: AP4034536

ASSOCIATION: Leningralskiy gosudarstvennyy universitet im. A. A. Zhdanova  
(Leningrad State University); Leningradskoye otdeleniye Matematicheskogo instituta  
im V. A. Stcklova Akademii Nauk SSSR (Leningrad Division of the Mathematical  
Institute Academy of Sciences, SSSR)

SUBMITTED: 27Nov63

DATE ACQ: 13May64

ENCL: 00

SUB CODE: NP

NO REF SOV: 003

OTHER: 007

Card 2/2

L 23148-66 ENT(1)/T IJP(c) GG/AT  
 ACC NR: AP6005845 SOURCE CODE: UR/0181/65/008/002/0560/0563

AUTHOR: Yermolayev, A. M.

ORG: Kharkov State University im. A. M. Gorky (Khar'kovskiy gosudarstvennyy universitet)

TITLE: Density of electron states in semiconductors with a Wurtzite lattice

SOURCE: Fizika tverdogo tela, v. 8, no. 2, 1966, 560-563

TOPIC TAGS: semiconductor theory, crystal lattice, crystal surface, crystal symmetry, electron structure, electron transition

ABSTRACT: Previous studies have shown that isoenergetic surfaces of electrons close to energy minima are ellipsoids with a symmetry which reflects the lattice symmetry. It has also been found that toroidal isoenergetic surfaces are preceded by an entire layer of surfaces with a complex topology located between ellipsoids and toroids in semiconductors with a Wurtzite lattice. The author studies the density of electron states and the classical effective mass of carriers in a magnetic field in a lattice of the Wurtzite type for transition from ellipsoidal to toroidal isoenergetic surfaces. Curves are given showing the behavior of the density of

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ACC NR: AP6006846

states during transition from ellipsoidal isoenergetic surfaces to corrugated toroids, and the effective mass of carriers in a magnetic field as a function of energy. In conclusion I am sincerely grateful to M. I. Kaganov who proposed and directed this work. Orig. art. has: 2 figures, 5 formulas.

SUB CODE: 20/

SUBM DATE: 12Jul65/

ORIG REF: 007/

OTH REF: 001

Card 2/2



YERMOLAYEV, A.N.; SHCHERBATENKO, V.V.; RASPUT'KO, E.N.

[Effect of dynamic loads on bread quality] Vliyanie dinamicheskikh nagruzok na kachestvo khleba. Moskva, Tsentral'noe nauchno-tekhn. informatsii pishchevoi promyshl., 1964. 45 p. (MIRA 18:5)

**YERMOLOV, A.P.**

**Operation of experimental frame-block bridges. Transp.strei. 6  
no.2:32 F '56. (MLRA 9:6)**

**1.Mostovoy master 18-y distantii puti Privolzhskoy doregi.  
(Bridges, Concrete)**

YERMOLAYEV, A.P.

"The Influence of the Preparations of the Blood from Pregnant Mares on Fertility of Cows."

SO: Veterinariya, Vol. 27; No. 3; 1950; p. 43; uncl

YEROLAYEV, A.P., kandidat veterinarnykh nauk.

Measure for controlling brucellosis on collective farms. Veterina-  
riia 33 no.6:18-20 Je '56. (MLBA 9:8)

1. Omskiy veterinarnyy institut.  
(Brucellosis--Prevention)

YERMOLAYEV, A.P.

YERMOLAYEV, A.P., kandidat veterinarnykh nauk.

Corn silage increases the productivity of cows. Nauka i pered.  
op. v sel'khoz. 7 no.8:13-14 '57. (MLRA 10:9)

1. Omskiy veterinarnyy institut.  
(Corn (Maize)) (Cows--Feeding and feeding stuffs)

USSR/Farm Animals - Cattle.

Q-3

Abs Jour : Ref Zhur - Biol., No 7, 1958, 30976

Author : Yermolayev A.

Inst : -

Title : What Age is Most Suitable for the First Mating of Heifers?  
(V kakom vozraste naiboleye tselesoobrazno provodit' pervuyu sluchku telok).

Orig Pub : Molochn. i myasnoye zhivotnovodstvo, 1957, No 3, 42-43.

Abstract : According to the author's data, the mating of heifers at an early age (before 18 months of age is attained) has a negative effect upon the fat content in the milk of the primiparae. The best period of mating for the Bestuzhev breed is considered the age between 18 and 23 months.

Card 1/1

- 51 -

*YERMOLAYEV, A.*

USSR/Farm Animals - Cattle.

Q-3

Abs Jour : Ref Zhur - Bioli; No 7, 1958, 30960

Author : Yermolayev A.

Inst :

Title : The Influence of Sires on the Fatty Milkiness of the Progeny.  
(Ottsovskoye vliyaniye na zhirnoblochnost' potomstva).

Orig Pub : Molochn. i myasnoye zhivotnovodstvo, 1957, No 9, 46-50

Abstract : On the basis of the data obtained from the herd of the Bestuzhev breed of the sovkhos "Urahak" of the Bashkir Spirtotrest, an analysis was effected in regard to the influence of the sires upon the increase of the fatty milkiness of the progeny. The number of daughters had by different sires ranged from 13 to 28; one bull had 54 daughters. The evaluation of sires by progeny was effected by comparing the female offspring. The data regarding production were collected for over 20 years.

Card 1/2

L 04060-67

EXP(R)/EXP(D)/EXP(N) /EXP(L)/EXP(T)/EXP(N) /EXP(N)

ACC NR: AP6027433

SOURCE CODE: UR/0125/66/000/007/0060/0062

AUTHOR: Yermolayev, A. P. (Moscow); Zlatkis, I. V. (Moscow); Pipko, A. I. (Moscow); Pliskovskiy, V. Ya. (Moscow); Puzyriyskiy, Yu. S. (Moscow); Tsybul'skiy, I. Ya. (Moscow)

ORG: none

TITLE: Following mechanism for arc welding in an inert gas

SOURCE: Avtomaticheskaya svarka, no. 7, 1966, 60-62

TOPIC TAGS: arc welding, inert gas welding, feed mechanism

ABSTRACT: The article describes the construction details of a new type following mechanism said to assure stability of the geometric dimensions of the welding seam in welding in inert gases with high ionization potentials (for example, helium). (See Fig. 1)

45  
B

Card 1/3

UDC: 621.791.856.03



L 04060-67

ACC NR: AP6027433

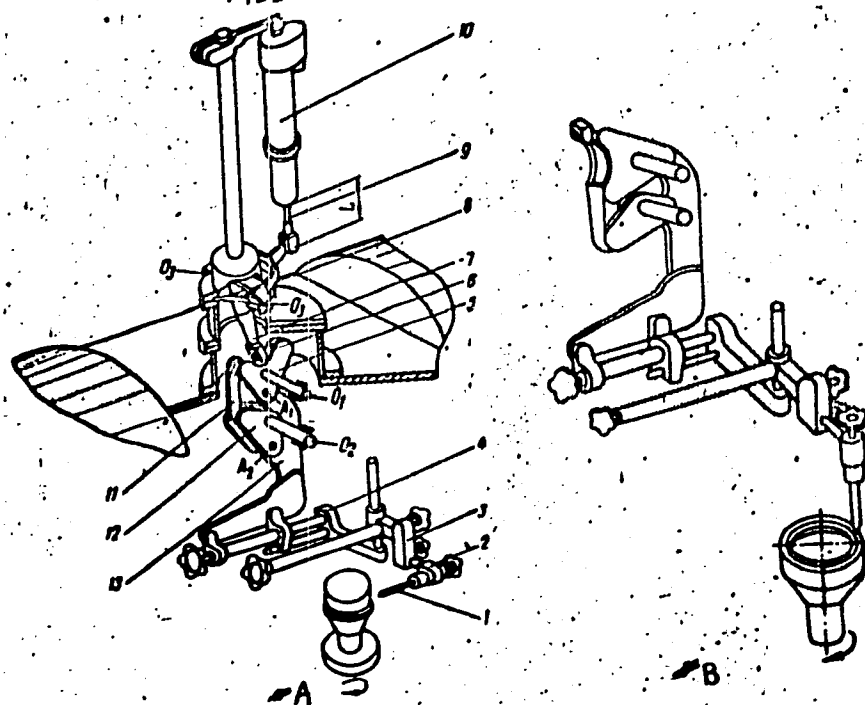


Figure 1.  
Construction of  
following mechanism

a--in position for  
welding seams on a  
cylindrical surface;  
b--the same for an  
end surface.

Card 2/3

L 04060-67

ACC NR: AP6027433

Electrode 1 is fastened to support 13 by means of clamps 2, 3, and 4. Clamp 2 makes it possible to rotate the electrode in a vertical plane and to change its position from the horizontal (Fig. 1, a) to the vertical (Fig. 1, b). Clamps 3 and 4 make it possible to regulate, respectively, the vertical and horizontal positions of the electrode. The support is connected by a swivel joint with levers 12 and 5, which are connected between themselves by link 11. Lever 5, with the aid of link 6 and lever 7, is connected in a swivelling fashion with shaft 9, which can execute forward and backward displacements, activated by a Type MP-100M of SL-161 electric motor, 10, with a built-in reducer. Experimental tests of the mechanism in argon arc welding have shown reliable maintenance of an interelectrode gap of 1 mm, with an accuracy of  $\pm 10\%$ , in a range of welding currents from 15 to 150 amps. The article also gives a detailed diagram of the electric control circuit. Orig. art. has: 2 figures.

SUB CODE: 13/ SUBM DATE: 02Mar66/ ORIG REF: 004

kh

Cord 3/3

VERHOFFEN, J.

AUTHORS: Boldyrev, V.V., Yermolayev, A.S.

76-11-27/35

TITLE: The Catalytic Effect of Solid Products in the Reduction of Nickel- and Copper Oxides by Hydrogen (O kataliticheskoy vliyaniy tverdykh produktov pri vosstanovlenii oksidov nikelya i medi vodorodom)

PERIODICAL: Zhurnal Fizicheskoy Khimii, 1957, Vol. 31, Nr 11, pp. 2562-2570 (USSR)

ABSTRACT: The present paper endeavors experimentally to show the presence of the lacking of self-catalysis in the reduction of nickel- and copper oxides by hydrogen. Experimental results show that the metallic nickel and copper forming in the reduction of NiO and CuO by hydrogen exercise a catalytic effect on the velocity of reaction. The catalytic effect of these additions can be imagined by taking the agreement with respect to orientation and the initial oxide according to P.D.Dankov [Ref. 24] into account. If one compares the structure of NiO with that of the  $\beta$ -nickel forming during the reaction, the possibility of an orientation of the first-formed metal layer according to the oxide can be imagined. Here the inter-atomic distance in the nickel lattice increases by about 14% (compared with the normal one). The same seems to occur in the reduction of copper

Card 1/2

The Catalytic Effect of Solid Products in the Reduction of Nickel- and Copper  
Oxides by Hydrogen 76-11-27/35

oxide, but in this case agreement as to orientation must be of a complicated character: 1.) Because of the greater difference of the lattice parameters and types in the initial substance and the reaction product, and 2) Because of the possible occurrence of an intermediate layer of copper oxide. The deforming effect is reciprocal. The catalytical influence of the product can occur only if there is sufficient contact between the product and the initial substance. This explains the reason why a mechanical addition of copper powder exercised no influence upon the velocity of reaction. This is in agreement with published data. There are 8 figures, 2 tables and 25 references, 18 of which are Slavic.

ASSOCIATION: Tomsk State University imeni V.V.Kuybyshev (Tomskiy gosudarstvennyy universitet im. V.V.Kuybysheva)

SUBMITTED: November 2, 1956

AVAILABLE: Library of Congress

Card 2/2

KUZNETSOV, N.D., inzh.; OBOBOTISTOVA, M.L., inzh.; YERMOLAYEV, A.U., inzh.  
YAGUNOV, A.A., inzh.; KRASNOV, A.I.; RYSIN, V.I., inzh.

Exchange of experience among the enterprises of economic  
councils. Torf. prom. 38 no.7:31-34 '61. (MIRA 14:12)

1. Syavakiy lesokhinkombinat Gor'kovskoy oblasti (for  
Kuznetsov). 2. Shaturakiy torfotrest Mosoblsovnarkhoza (for  
Oborotistova). 3. Predpriyatiye Osintorf sovnarkhoza BSSR  
(for Yermolayev). 4. Monetnoye torfopredpriyatiye Sverdlovskogo  
sovnarkhoza (for Yagunov). 5. Makeikha-Zybinskoye predpriyatiye  
Yaroslavskogo sovnarkhoza (for Krasnov). 6. Torfopredpriyatiye  
Radovitskiy mokh Mosoblsovnarkhoza (for Rysin).  
(Peat machinery)

|   |  |    |
|---|--|----|
| YERMOLAYEV, A.V.  |  | 30 |
| <p>PROCESSES AND PROPERTIES IN THE</p> <p>Plastic masses from rubber. A. V. Yermolayev and V. P. Kurko. Russ. M, 985, April 30, 1937. Into the usual rubber mixt. is introduced during rolling up to 30% (on the rubber) of halogenetic acid.</p> |  |    |
| <p>ASB-SLA DETAILING LITERATURE CLASSIFICATION</p>  |  |    |
| <p>100000 410 000 001</p>   |  |    |
| <p>100000 410 000 001</p>   |  |    |

[illegible]

YERMOLAYEV, A.V.  
L. G. /

*Grade Natural  
Rubber*

Use of high-frequency currents in the rubber industry. A. V. YERMOLAYEV and I. S. OSMANOVSKII (Kauchuk i Rezina, 1960, No. 9, 33-6; I.R.W., 1960, 195, 74). Advantages of using high-frequency current for vulcanizing rubber include the even and quick heating of the entire mass; the ease with which the temperature can be regulated; considerable reduction in the period of time required for vulcanization; and the ease and cleanliness of the process and the possibility of making it continuous. 36789

11/11/11



ALEKSEY KO, L.A.; YERMOLAYEV, A.V.; YEL'CHINSKAYA, L.A.

Effect of some additions on the kinetics of the reduction of  
cadmium oxide by hydrogen. Zhur. fiz. khim. 38 no.6:1640-1642  
Je '64. (MIRA 18:3)

1. Tomskiy gosudarstvennyy universitet.

L 3666-66 EMT(m)/ZPP(c)/EWP(1) RM

ACCESSION NR: AP5017841

UR/0226/65/000/011/0078/0078  
678.763.043

AUTHOR: Terent'yev, A. P.; Yermolayev, A. V.; Rukhadze, Ye. G.; Ippizemtseva, A. V.;  
Bobrova, N. I.; Malaya, Z. I.; Lobova, A. N.

TITLE: Vulcanization process for fluorocarbon elastomers. Class 39, No. 171567 16

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 11, 1965, 78

TOPIC TAGS: fluorocarbon elastomer, vulcanization, vulcanizing agent

ABSTRACT: An Author Certificate has been issued for vulcanizing agents for fluoro-carbon elastomers. To improve the physical and mechanical properties of the vulcanizates and to simplify the vulcanization process, the vulcanizing agents used are cobalt N, N'-ethylenebis(salicylidinimine) and/or titanium salicylidinimine. [SM]

ASSOCIATION: none

SUBMITTED: 21Apr62

ENCL: 00

SUB CODE: MT

NO REF SOV: 000

OTHER: 000

AND PRESS: 4047

Card 1/1

YERMOLAYEV, B. B.

Cand. Veterin Sci.

Dissertation: "Insufficiency of Blood Formation in Horses Affected  
with Infectious Anemia."

6 Jul. 49

Moscow Veterinary ACADEMY

SO Vecheryaya Moskva  
Sum 71

**YEZHOVA, B.B., dotent.**

**Etiopathogenesis of diseases in horses with the symptoms of colic.**  
**Veterinariia 30 no.8:33-40 Ag '53. (MLBA 6:8)**

**1. Novocherkasskiy sootekhnicheskoe-veterinariy institut.**

SEMENOV, Ivan Semenovich; YERMOKHIN, Mikhail Matveyevich

[New military statutes] Novye voinskie ustavy. Moskva,  
Voen. izd-vo, 1961. 39 p. (MIRA 18:9)

YERMOKHIN, N., general-major artillerii; VEKSLER, I., p dpolkovnik; SHILOV,  
N. Inzhener-podpolkovnik

Methodological skill plus programmed instruction. Tekh. i vooruzh.  
no.4:36-40 Ap '64. (MIRA 17:9)

~~YERMOLOKHIN V. N.~~

USSR/Cultivated Plants - Potatoes, Vegetables, Melons.

II-5

Abs Jour : Ref Zhur - Biol., No 9, 1958, 39304

Author : Yermoldin, V.N.

Inst : -

Title : The Influence of Deep Soil Cultivation Without Over  
Turning the Soil Layer on the Yield of Vegetable-Melon  
Crops and of Potatoes under Conditions of Irrigated Far-  
ming.

Orig Pub : Sots, s.-kh. Uzbekistana, 1956, No 10, 61-64.

Abstract : Potatoes were planted early (Kubiny No 3 variety) in a  
soil which was plowed to a depth of 40-45 cm without bur-  
ning over the soil layer. The plants developed well and  
the yield increased by 27% in comparison with the same crop  
grown on soil plowed to a depth of 25-27 cm. The experi-  
ment took place at the Uzbek vegetable-potato experiment  
station in 1955. The yield of water melons increased by  
10%. The yield of melon crops went up by 5%.

Card 1/2

- 67 -

USSR/Cultivated Plants - Potatoes, Vegetables, Melons.

M-5

Alt Jour : Red Star - Biol., No 9, 1958, 39304

Potatoes planted in the summer in deeply plowed soil without turning over the layer produced a decrease in yield in comparison with a crop obtained on soil which had been turned over. In this experiment, irrigation had to be used even before the appearance of sprouts. This caused a sagging and tightening in the soil which had been plowed without over turning the layer. Therefore, the plant developed poorly. When the soil was plowed deeply without a moldboard, the contents of nitrates and of free phosphoric acid in the arable and sub-arable horizon down to a depth of 50 cm. increased considerably. -- S.A. Hilitin.

Card 2/2



YERMOKHIN, V.N.

M-3

USSR/Cultivated Plants - Potatoes. Vegetables. Melons.

Abs Jour : Ref Zhur - Biol., No 7, 1958, 29821

Author : Yermokhin, V.N.

Inst :

Title :

The Rectangular Double-Row Method of Planting Melons on Irrigated Ground

Orig Pub : Sots. s. kh. Uzbekistana, 1957, NO 3, 49-53

Abstract : At the Uzbek Experimental Vegetable and Potato Station, trying out three different methods of planting in 1955 (namely, the square-pocket method with 140 x 140 cm. and 2 plants in each bunch, the rectangular at 140 x 70 cm. with a single plant in each group, planting on the scheme of 280 x 70 cm. in shallow coupled furrows, leaving one plant in a bunch) showed the latter method to yield the best results. The rectangular double-row method of planting in the furrows improved the irrigating set-up and facilitated a melon yield increase in comparison with the

Card 1/2

- 25 -

YERMOKHIN, V.N.

USSR/Cultivated Plants. Potatoes, Vegetables, Melons.

M

Abs Jour: Ref Zhur-Biol., No 17, 1958, 77682.

Author : Yermokhin, V.N.

Inst

Title : New Division into Districts of Varieties of Vegetables and Melon Crops.

Orig Pub: Sots. s.kh. Uzbekistana, 1957, No 8, 73-74.

Abstract: Description is given of new varieties of vegetable and melon crops put into the districts of the Uzbek SSR in 1957: salt cucumbers Kuylyukskiy 262, cabbage Tashkentetskaya 10 for the middle and late periods of planting, and Samarkand white watermelon.

Card : 1/1

Y z R m o K H H V V.

11(8) PHASE I BOOK EXHIBITION NOV/2005

Baku. Azerbaydzhanskij nauchno-issledovatel'skiy institut nefte-

pererabatyvayushchij proektsionnaya issni V. V. Kuyayeva.

Sbornik trudov, vyp. 2. (Collection of Works, No. 2) Baku,

asneftstat, 1958. 373 p. Errata slip inserted. 500

copies printed.

Additional Sponsoring Agency: Azerbaydzhun. Ministerstvo neftyanoy

promyshlennosti.

Ed. of Publishing House: T.B. Al'tman; Editorial Board: V.S. Aliyev,

Candidates of Chemical Sciences, V.S. Gutyra, Doctor of Chemical

Sciences, A.M. Kuliyaev, Doctor of Chemical Sciences, M.A. Ismailov,

Chemical Sciences, V.Ya. Masnyan, Candidate of Technical

Sciences, A.M. Kuliyaev, Candidate of Technical Sciences, M.A. Ismailov,

team. Candidate of Chemical Sciences, I.M. Gruzdev, Candidate

of Technical Sciences, M.M. Melnikova, Candidate of Chemical

Sciences.

PURPOSE: This collection of articles is intended for chemical

engineers, technicians, and refiners concerned with advanced

methods of petroleum conversion.

COVERAGE: The collection presents an analysis of different

types of crudes extracted in Azerbaydzhun and of the products

recovered from these crudes through petroleum conversion

processes. The desulfuring, desalting and demulsifying of crudes

is described and the suitability of these crudes for the

cracking of diesel fuels is discussed. Results of catalytic

cracking performed on fluidized bed synthetic catalyst

and the chemical composition of gasoline produced by two-

stage catalytic cracking are analyzed. Attention and desulfur-

tion of catalysts as well as catalytic distillation in a hyper-

flow system are reviewed. Various lubricating oils and

the production of different types of oils and of a black

are outlined. References accompany individual articles.

16 Masnyan, V.Ya., M.K. Danilov, K.I. Kiselev, B.A. Salimov, and A. Arutunov. Preliminary Treatment of Baku Crude for Refining

17 Azerbaydzhun. V.Ya. Masnyan, A.O. Ismailov, B.Y. Ismailov (deceased), M.A. Kuliyaev, M.M. Melnikova, A.M. Kuliyaev (deceased), S.A. Gruzdev. Azerbaydzhun Crudes as a Raw Material Source for Diesel Fuels

18 Masnyan, V.Ya., V.S. Gutyra, and D.I. Zaitseva. Effect of Certain Conditions of Catalytic Cracking Performed Over a Fluorinated Synthetic Silica Alumina Catalyst on the Formation of Aromatic Hydrocarbons in Gasoline

19 CASE 38

SOV/81-59-10-36392

Translation from: Referativnyy zhurnal. Khimiya, 1959, Nr 10, p 438 (USSR)

AUTHORS: Agayeva, S.M., Yermokhin, V.V., Ismaylov, A.G., Kudinov, A.V., Kupriy-  
nova, L.A., Nadirova, M.N., Terteryan, A.B., Terteryan, S.A.

TITLE: The Petroleum of Azerbaydzhan as Raw Material Source for the Production  
of Diesel Fuels

PERIODICAL: Sb. tr. Azerb. n.-i. in-t neftepererabat. prom-sti, 1958, Nr 2, pp 34-43  
(Azerbaydzhanian summary)

ABSTRACT: The results of an investigation are cited which had the aim of obtaining  
high-quality diesel fuel for high-speed diesel engines from Azerbaydzhan  
petroleum. Petroleum samples of 24 layers were subjected to laboratory  
fractionation followed by selecting the 10°C fractions within the tempera-  
ture range of 130 - 400°C. The obtained fractions were then subjected to  
physical-chemical analysis for determination of indices characterizing the  
operational properties of the fuels: cetane number, fraction composition,  
viscosity, turbidity and pour points, etc. Based on the investigation  
the classification of the principal types of Baku petroleum has been car-  
ried out with regard to obtaining diesel fuels from them. The resources

Card 1/2

SOV/81-59-10-36392

The Petroleum of Azerbaydzhan as Raw Material Source for the Production of Diesel Fuels

and the qualities of these fuels have been determined and a State Standard GOST for high-speed diesel fuels has also been developed.

V. Kel'tsev

Card 2/2

TKACHEV, Roman Yakovlevich; NAMESTNIKOV, A.P., spets.red.;  
YEREMKHINA, N.V., red.; KISINA, Ye.I., tekhn. red.

[Equipment for canning green peas] Oborudovanie dlia  
konservirovaniia zelenogo goroshka. Moskva, Pishche-  
promizdat, 1963. 118 p. (MIRA 16:7)  
(Peas, Canned)

DIKIY, Boris Fedorovich; LOMAKIN, Vladimir F. Ippovich; DREVS,  
G.V., dots., retsenzent; ZAYCHIK, TS.R., inzh.,  
retsenzent; YEMOKHINA, N.V., red.

[Automation of the processes in wine making] Avtomati-  
zatsiia protsessov vinodeliia. Moskva, Pishchevaia pro-  
myshlennost', 1964. 365 p. (MIRA 17:9)

VLASOV, Petr Fedorovich; KOMAROV, V.S., inzh., retsenzent;  
YERMONKHINA, N.V., red.; KISINA, Ye.I., tekhn. red.

[Ventilation, air-conditioning and pneumatic conveying in tobacco factories] Ventilatsiia, konditsionirovanie vozdukh i pnevmaticheskii transport na tabachnykh fabrikakh. Moskva, Pishchepromizdat, 1963. 155 p. (MIRA 16:12)  
(Pneumatic conveying) (Tobacco industry)



ANTOKOL'SKAYA, Mir'yam Yakovlevna; BRONSHTEYN, Isaak Iosifovich;  
MARTYNOV, Mikhail Ivanovich; SMIRNOV, Anatoliy Fedorovich;  
SHKLOVSKAYA, Anna Yevgen'yevna; ZHURAVLEVA, Ye.I., retsenzent;  
SOLOMONOV, P.I., retsenzent; YERMOKHINA, N.V., red.;

[Manual on raw materials, intermediate products and finished products in confectionery; manufacture; physicochemical characteristics] Spravochnik po syr'iu, polufabrikatam i gotovym izdeliham konditerskogo proizvodstva; fiziko-khimicheskie kharakteristiki. Moskva, Izd-vo "Pishchevaia promyshlennost'," 1964. 229 p. (MIRA 17:5)

SHTROMBERG, Ya.A.; KALINUSHEKIN, M.P., prof., retsenzent; DZHALAGANIYA, K.I.,  
inzh., retsenzent; YERMOKHINA, N.Y., red.  
[Ventilation and the air conditioning in the tea  
processing industry] Ventilatsiya i konditsionirovanie  
vozdukh v chaeobrabatyvaiushchei promyshlennosti. Mo-  
skva, Izd-vo "Pishchevaia promyshlennost'," 1964. 217 p.  
(MIRA 17:6)

PERTSOVSKIY, Yevgeniy Solomonovich; SHUBIN, Anatoliy Stepanovich;  
RACHINSKIY, V.V., prof., retsenzent; KARDASHEV, A.V.,  
kand. tekhn.nauk, retsenzent; YERMOKHINA, N.V., red.

[Use of atomic energy in the food industry] Primenenie  
atomnoi energii v pishchevoi promyshlennosti. Moskva,  
Pishchevaia promyshlennost', 1964. 398 p.  
(MIRA 18:3)

*Yermokhina, T.M.*

YERESINOVA, T.M.; YERMOKHINA, T.M.

Lipids of sewage waters. Vest. Mosk. un. Ser. biol., pochv., geol.,  
geog. 12 no. 4: 63-73 '57. (MIRA 11:5)

1. Kafedra biokhimii rasteniy Moskovskogo gosudarstvennogo uni-  
versiteta.

(Lipids) (Sewage—Analysis)

YEVREINOVA, T.N.; MASLOVA, S.V.; YERMOKHINA, T.M.; SIZOVA, T.P.

Effect of temperature on nucleic acids of *Aspergillus fumigatus*.  
Mikrobiologiya 29 no. 4:516-522 J1-Ag '60. (MIRA 13:10)

1. Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova.  
(ASPERGILLUS) (NUCLEIC ACIDS)  
(TEMPERATURE—PHYSIOLOGICAL EFFECT)

YERMOKHINA, T.M.; ZAYTSEVA, G.N.; BELOZERSKIY, A.N., akademik

Specificity of methionine activating enzymes and ribonucleic acids  
accepting methionine in various species of microorganisms. Dokl.  
AN SSSR 149 no.6:1438-1442 Ap '63. (MIRA 16:7)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.  
(Methionine) (Nucleic acids) (Enzymes)

YERMOKHINA, T.M.; ZAYTSEVA, G.N. ; ZERNOVA, L.I.; BELOZERSKIY, A.N.,  
akademik

Some data on the "species" of sRNA and aminoacyl-sRNA-synthetases  
in micro-organisms. Dokl. AN SSSR 159 no.5:1165-1168 D '64  
(MIRA 18:1)

1. Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova.

YERMOKHINA, T.M.; STAMBOLOVA, M.A.; ZAYTSEVA, G.N.; KHAZERSKIY, A.N.,  
akademik

Species specificity of "soluble" RNA and aminoacyl-RNA-synthetases  
in some plants. Dokl. AN SSSR 164 no.3:688-691 S '65.

(MIRA 18:9)

1. Moskovskiy gosudarstvennyy universitet.



ACC NR: AP6033277

SOURCE CODE: UR/0020/66/170/004/0974/0977

AUTHOR: Yermokhina, T. M.; Mekhanik, M. L.; Zaytseva, G. N.; Belozerskiy, A. N. (Academician)

ORG: Moscow State University im. M. V. Lomonosov (Moskovskiy gosudarstvennyy universitet)

TITLE: Investigation of phenylalanyl-RNA-synthetase and phenylalanine sRNA in yeasts and insects

SOURCE: AN SSSR, Doklady, v. 170, no. 4, 1966, 974-977

TOPIC TAGS: enzymology, RNA, RNA synthesis, ~~enzyme~~, cell physiology, ~~metabolic research~~, biochemistry, *insect, enzyme, yeast*

ABSTRACT: The possible heterogeneity of phenylalanyl-RNA synthetases and their corresponding sRNA's was investigated using insect and microbial materials as sources of biochemicals. Cellular extracts of very high purity were obtained using standard methods. The enzymes from insect larvae and yeasts were separated into two components on a DEAE cellulose column and their physical properties and enzyme action determined using radioactive tracer methods. Two corresponding sRNA fractions were also separated, enzyme E<sub>1</sub> aminoacylates phenylalanine with RNA<sub>II</sub> and enzyme E<sub>2</sub>—RNA<sub>I</sub>. In the protein fraction a third enzyme E<sub>3</sub>

Card 1/2

UDC: 547.963.3

ACC NR: AP6033277

appeared, but two corresponding  $C^{14}$ -phenylalanyl RNA's were discovered, a case of one enzyme governing the formation of two slightly different sRNA's.  $E_1$  was species specific being found only in extracts from flies. The existence of other sets of general heterogeneous and species specific enzymes are postulated for other organisms. Orig. art. has: 3 figures. [W.A. 50]

SUB CODE: 06/ SUBM DATE: 29Jun66/ ORIG REF: 004/ OTH REF: 015

Card 2/2

ACC NR: AP6033277

SOURCE CODE: UR/0020/66/170/004/0974/0977

AUTHOR: Yermokhina, T. M.; Mekhanik, M. L.; Zaytseva, G. N.; Belozerskiy, A. N. (Academician)

ORG: Moscow State University im. M. V. Lomonosov (Moskovskiy gosudarstvennyy universitet)

TITLE: Investigation of phenylalanyl-RNA-synthetase and phenylalanine sRNA in yeasts and insects

SOURCE: AN SSSR. Doklady, v. 170, no. 4, 1966, 974-977

TOPIC TAGS: enzymology, RNA, RNA synthesis, ~~protein~~, cell physiology, ~~molecular biology~~, biochemistry, *insect, enzyme, yeast*

ABSTRACT: The possible heterogeneity of phenylalanyl-RNA synthetases and their corresponding sRNA's was investigated using insect and microbial materials as sources of biochemicals. Cellular extracts of very high purity were obtained using standard methods. The enzymes from insect larvae and yeasts were separated into two components on a DEAE cellulose column and their physical properties and enzyme action determined using radioactive tracer methods. Two corresponding sRNA fractions were also separated, enzyme E<sub>1</sub> aminoacylates phenylalanine with RNA<sub>II</sub> and enzyme E<sub>2</sub>—RNA<sub>I</sub>. In the protein fraction a third enzyme E<sub>3</sub>

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UDC: 547.963.1

ACC NR: AP6033277

appeared, but two corresponding C<sup>14</sup>-phenylalanyl RNA's were discovered, a case of one enzyme governing the formation of two slightly different sRNA's. E<sub>1</sub> was species specific being found only in extracts from flies. The existence of other sets of general heterogeneous and species specific enzymes are postulated for other organisms. Orig. art. has: 3 figures. [W.A. 50]

SUB CODE: 06/ SUBM DATE: 29Jun66/ ORIG REF: 004/ OTH REF: 015

Card 2/2

TOROPOV, A.P.; YERMOKHINA, V.A.

Viscosity of systems with ethyl stearate. *Uzb.khim.zhur*  
no.3:36-40 '61. (MIRA 14:11)

1. Tashkentskiy gosudarstvennyy universitet imeni Lenina.  
(Stearic acid)  
(Systems(Chemistry))

CHUCHULIN, P.P.; YERMOLAYEV, A., ofitser-topograf zapasa (g.Ul'yanovsk);  
PETRENKO, V.V. (g.Odessa)

Problems requiring discussion. Geog.v shkole 22 no.3:76-80  
My-Je '59. (MIRA 12:11)

1. Kabardino-Balkarskaya ASSR (for Chuchulin).  
(Geography--Study and teaching)

YERMOLAYEV, A.

USSR / Farm Animals. Cattle.

Q

Abs Jour : Ref Zhur - Biologiya, No 2, 1959, No. 7351

Author : Yermolayev, A.

Inst : Not given

Title : The Milk's Fat Content in the Bestuzhevskiy  
Breed Cattle in Bashkiria

Orig Pub : Molochn. i myasn. zhivotnovodstvo, 1958, No  
3, 45-48

Abstract : No abstract given

Card 1/1

13

YERMOLAYEV, A.

YEGOROV, L.; YERMOLAYEV, A.; MIKHAYLYUTA, D.

The ZIL-164 motortruck. Avt. transp. 35.no.3:26-29 Nr '57.  
(MIRA 10:5)

1.Moskovskiy avtomobil'nyy saved in. I.A. Likhachev.  
(Motortrucks)



LOSHCHAGINA, Ye.; YERMOLAYEV, A.

Contribution of innovator N.F.IAanchevskii. Mashinostroitel'  
no.8:3 Ag '62. (MIRA 15:8)  
(Milling machines--Technological innovations)

YERMOLAYEV, A.; LOSHCHAGINA, Ye.

G.M. Komarov's helical cutter. Mashinostroitel' no.2:24 F '63.

(MIRA 16:3)

(Metal-cutting tools)

PHASE I BOOK EXPLOITATION 719

Yermolayev, Aleksandr Aleksandrovich

Teoreticheskiye osnovy teplotekhniki (Theoretical Principles of Heat Engineering) Moscow, Gosenergoizdat, 1957. 349 p. 10,000 copies printed.

Ed.: Kuz'min, S. I.; Tech. Ed.: Zabrodina, A. A.

PURPOSE: The book is intended as a textbook for schools in power engineering and for technical workers in heat engineering.

COVERAGE: The ~~author~~, a lecturer in heat engineering at the Leningrad Engineering Tekhnicum, presents the principles of heat engineering including thermodynamics and the theory of heat transfer. Part I cites the main laws of thermodynamics theory and shows their application in analyzing cycles of thermal power stations operating on both gas and steam. He dwells on the escape and throttling of gas and vapor, and on moist air properties.

Card 1/11

Theoretical Principles of Heat Engineering

719

Part II of the book deals with the physical principles of heat exchange and the methods of analyzing the operation and design of thermal installations. The author clarifies the subject by citing examples to illustrate the solution of technical problems. The book contains 8 appendices which consist of tables of technical data on power plants. Personalities mentioned include Professor M. D. Vaysman, who reviewed the manuscript, and Professor S. I. Kuz'min, the scientific editor. There are 22 Soviet references.

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11-25-58

YERMOLAYEV, A.A., dotsent, kand.tekhn.nauk

Efficiency of steam and gas-turbine engines. Sbor. LIZHT no.168:  
258-262 '60. (MIRA 13:10)

(Steam engines--Efficiencies)  
(Gas turbines)

KHAZEN, Moisey Mikhaylovich; IVANOV, Igor' Ivanovich; ARONOVICH,  
Simon Savvich; YERMOLAYEV, A.A., kand. tekhn. nauk, dots.  
retsensent; MEL'NIK, V.A., inzh., red.

[Heat and power systems] Teplosilovoe khoziaistvo. Moskva,  
Transport, 1964. 329 p. (MIRA 17:8)

1. Leningradskiy institut inzhenerov zheleznodorozhnogo trans-  
porta (for Yermolayev).

SHIPITSYN, S.A.; KIRYUSHKIN, V.V.; YERMOLAYEV, A.A.

Gas burner for flame photometry of powder specimens. Zav. lab. 31  
no.2:253 '65. (MIRA 18:7,

1. Irkutskiy gosudarstvennyy universitet.



**YERMOLAYEV, A.A., inzhener; RYZHKOV, F.M., inzhener; SIDOROV, P.S., inzhener.**

**Experience in ventilating mines after large-scale explosions.  
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- 1. Unipromed' (for Yermolayev and Ryzhkov). 2. Degtyarskiy rudnik  
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(Mine ventilation) (Mine explosions)**

*YERMO LA YE V, P. A.*  
BAKIROV, U. Kh., gornyy inzhener; KRUTOVSKIKH M.D., gornyy inzhener; YERMOLAYEV,  
A. A., gornyy inzhener.

Counterterreter fans. Gor. shur. no. 5170-71 W '57.

(MIRA 10:6)

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(Great Britain--Mine ventilation)  
(Fans, Electric)

RYZHKOV, F.N., inzh.; YERMOLAYEV, A.A., inzh. [deceased]

Results of the introduction of suction-type ventilation. Bezop.truda  
v prom. 6 no.8:22-23 Ag '62. (MIRA 16:4)

1. Ural'skiy nauchno-issledovatel'skiy i proyektnyy institut mednoy  
promyshlennosti.

(Mine ventilation)

YEMOLAYEV, A. A.; LOSHCAGINA, Ye. I.

Fitting and repair shop foreman G. N. Nikitin. Mashinostroitel'  
no.12:5 D '62. (MIRA 16:1)

(Leningrad—Machinery industry)

SLONIM, I. Ya.; URMAN, Ya.G.; YERMOLAYEV, A.D.

Nuclear magnetic resonance in trioxane. Zhur. strukt. Khim. 6  
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28, 1964.

KOCHERGIN, P.G. (Kursk); YERMOLAYEV, A.D., (Ul'yanovsk); PASTERISOVICH,  
E.L. (Leningrad); MOZZHELIN, A.I.; LAVROV, V.A.; ZIMINA, A.

Discussion of new geography programs. Geog.v shkole 23 no.1:  
63-74 Ja-F '60. (MIRA 13:5)

1. 176-ya shkola rabochey molodeshi Mskvy (for Mozzhelin).
2. 7-ya shkola rabochey molodeshi Kalinina (for Lavrov).  
(Geography--Study and teaching)

AKUTIN, M.S.; TIKHOMIROVA, M.S.; YERMOLAYEV, A.D.

Preparation of polyformaldehyde by means of radiation polymerization  
of trioxane. Plast.massy no.12:12-13 '63. (MIRA 17:2)

URMAN, Ya.G.; SLONIM, I. Ya.; YERMOLAYEV, A.D.

Nuclear magnetic resonance in the system: polymer in monomer  
matrix. Vysokom. soed. 6 no.11:2107-2108 N '64 (MIRA 18:2)



SLONIM, I.Ya.; URMAN, Ya.G.; YERMOLAYEV, A.D.; AKUTIN, M.S.

Nuclear magnetic resonance in oriented polymers. Part 3: Polyoxymethylene obtained by radiation polymerization. Zhur. strukt. khim. 6 no.2:192-197  
Mk-Ap '65. (MIRA 18:7)

1. Nauchno-issledovatel'skiy institut plastmass.

L 23332-66 EWI(n)/EPF(n)-2/ENP(j)/I/EWA(h)/EWA(1) EG/RM

ACC NR: AP6006979

SOURCE CODE: UR/0120/66/008/002/0251/0255

AUTHORS: Urman, Ya. G.; Slonim, I. Ya.; Yermolayev, A. D.

ORG: Scientific Research Institute of Plastics (Nauchno-issledovatel'skiy institut plasticheskikh mass)

TITLE: Investigation of the radiation polymerization of trioxane in solid phase (4th report in the series "Nuclear magnetic resonance in oriented polymers")

SOURCE: Vysokomolekulyarnyye soyedineniya, v. 8, no. 2, 1966, 251-255

TOPIC TAGS: radiation polymerization, nuclear magnetic resonance, trioxane

ABSTRACT: Oriented radiation-induced polymerization of trioxane in solid phase has been investigated by NMR. This is an expansion of the work published earlier by Ya. G. Urman, I. Ya. Slonim, and A. D. Yermolayev (Vysokomolek. soyed., 6, 2107, 1964). The method for preparing monocrystalline trioxane and for its polymerization was described previously by I. Ya. Slonim, Ya. G. Urman, and A. D. Yermolayev (Zh. struct. khimii, 6, 531, 1965). NMR spectra were taken with a spectrometer of the Central Laboratory of Automation (Tsentral'naya laboratoriya avtomatiki) at the frequency of 20 megahertz at 40°C. Changes in the NMR spectra observed during the solid polymerization process are shown in Fig. 1. It was observed that: 1) during post-polymerization of the irradiated sample at 55°C, the shape and second moment of NMR line change sharply. The position of the sample in the field also has a significant

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UDC: 66.095.26+678.55

L 23332-66

ACC NR: AP6006979

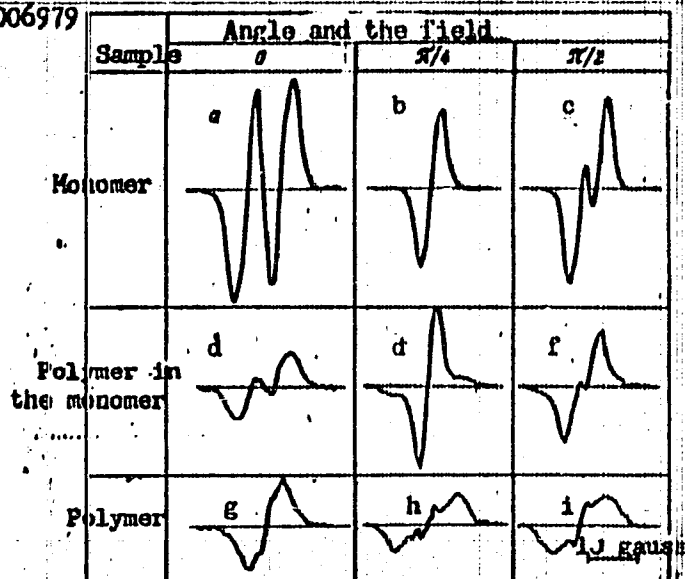


Fig. 1. Shape of NMR lines at  $400^\circ\text{C}$  for three positions of the sample in the magnetic field: a, b, c - trioxane monocrystal; d, e, f - trioxane after irradiation and heating at  $550^\circ\text{C}$  for 80 min; g, h, i - polyoxymethylene, washed of the residual monomer.

effect on the character of NMR: 2) agglomeration of low-molecular products occurs during polymerization, which is responsible for the appearance of a narrow component in NMR. Orig. art. has: 5 figures.

SUB CODE: 07/

SUBM DATE: 27Feb65/

ORIG REF: 010/

OTH REF: 001

Card 2/2 ULR

GREBENYUK, V.A.; PUSTOVALOV, A.I.; YEROFEYEV, I.Ye.; KARABACH,  
T.L.; TURGAMBAYEV, B.M.; BOSYAKOV, P.Ye.; YERMOLAYEV,  
A.G.; FOMENKO, V.D.; YEGOROV, A.A.; CHOMOV, D.I.;  
ZHUYKO, Yu.P.; PANOV, S.A.;

[Twenty-second Congress of the Communist Party of the  
Soviet Union Mine] Rudnik imeni XXII s"ezda KPSS. Moskva,  
Nedra, 1964. 87 p. (MIRA 17:10)

1. Russia (1917- R.S.F.S.R.) Vostochno-Kazakhstanskiy  
ekonomicheskiy rayon. Zyr'yanovskiy svintsovyi kombinat.

RYBERT, V.F., gornyy inzh.; PUSTOVALOV, A.I., gornyy inzh.; PONOMAREV, L.F., gornyy inzh.; YEROFEYEV, I.Ye., gornyy inzh.; YERMOLAYEV, A.G., gornyy inzh.

Making use of industrial potentialities in a mine of communist labor. Gor.zhur. no.1:6-9 Ja '64. (MIRA 17:3)

1. Rudnik imeni XXII s"yezda Kommunisticheskoy partii Sovetskogo Soyuza Zyryanovskogo kombinata.

YERMOLOV, A. I.

13971\* Aluminum Alloys in Automotive Construction. Alu-  
miniumy splyav v avtomobiln. (Russian) L. A. Egorov and  
A. I. Ermolov, Avtomobilnaya i traktoraya promyshlennost',  
1955, no. 7, July, p. 25-27.  
NG Composition and properties of Al alloys used in different sec-  
tions of automotive industry. Photographs, diagrams. 7 ref.

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YEGOROV, L.A., kandidat tekhnicheskikh nauk; YERMOLAYEV, A.I.

Testing and improving constant velocity universal joints for  
automobiles. Avt. i trakt. prom. no.2:17-23 P '57. (MLRA 10:3)

1. Moskovskiy avtozavod imeni Likhacheva.  
(Automobiles--Transmission devices)

BUKHARIN, N.A., doktor tekhn. nauk; YERMOLAYEV, A.I.;  
SNYTIM, M.Ye., kand. tekhn. nauk

Evaluation of operational reliability and durability of  
parts and units of a motor vehicle. Avt. prom. 29 no.8:  
25-27 Ag '63. (MIRA 16:11)

1. Leningradskiy inzhenerno-stroitel'nyy institut i  
Moskovskiy avtozavod imeni Likhacheva.



YERMOLAYEV, A.K., Doc Agr Sci -- (diss)"Increasing the  
milk fat of <sup>Bestushev</sup> ~~besturhevskiy~~ cows in kolkhozes and sovkhoses  
of Bashkiriya." Kiev, 1958, 31 pp (Min of Agr UkrSSR.  
Ukrainian Acad of Agr) 150 copies (KL, 42-58, 116)

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YERMOLAYEV, A. K., Doc. Agr Sci, "INCREASING THE <sup>milk- capacity</sup> ~~FAT CONTENT~~  
OF COWS OF THE BESTUSCHEFF BREED UNDER CONDITIONS OF THE KOL-  
KHOZES AND SOVKHOZES OF BASHKIRIYA." KIEV, 1960. (MIN OF AGR  
UKSSR, UKRANIAN ACAD OF AGR SCI). (KL, 3-61, 223).

YERIMOLAYEV, A. Kh.

ERMOLAEV, A. Kh.

Balans zheleznoi dorogi i ego znachenie. [The railway balance sheet and its significance]  
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DLC: HE2236.E7

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Reference Department, Washington, 1952, Unclassified.

YERMOLYEV, A. Kh.

Inspection of documents in railroad transport Izd. 2., ispr. 1 dop. Moskva, Gos.  
transp. zhel-dor. izd-vo, 1950. 202 p. (50-55183)

24(5)

AUTHOR:

Yermolayev, A. M.

SOV/54-58-4-6/18

TITLE:

Expansion of the Wave Functions of Many-electron Systems in Fok Series (Razlozheniye volnovykh funktsiy mnogoelektronnykh sistem v ryady Foka)

PERIODICAL:

Vestnik Leningradskogo universiteta. Seriya fiziki i khimii, 1958, Nr 4, pp 48-64 (USSR)

ABSTRACT:

In 1954, Fok found the form of the expansion of the wave function of the 1S state of a helium atom and helium-like ions. This expansion is a series of whole powers of  $r$  and  $\ln r$ . It was the purpose of this paper to generalize the results obtained by Fok (Ref 1) on the basis of the expansion of the wave functions of many-electron atoms. It is shown that according to the theory of harmonic functions on a hypersphere in the  $3N$ -dimensional configuration space of the system of  $N$  electrons in the nuclear field a wide class of wave functions in the surroundings of  $r = 0$  may be expanded in a double series (7,7). These series are called Fok series. Their coefficients are finite, continuous and simple functions of the spherical angles in each point of the hypersphere. If the logarithm power attains high values al-

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SOV/54-58-4-6/18

Expansion of the Wave Functions of Many-electron Systems in Fok Series

ready in the expansion, this series expansion is a generalization of the well-known expansion ad infinitum of a regular, singular point for the solution of a usual differential equation. The theory under discussion is very complicated for practical use. The expansion may be assumed to be convergent for all finite  $r$ . Further it is determined in a uniform way if the asymptotic expression of the wave function for  $r \rightarrow \infty$  is given; the theory is especially useful for processes in the immediate neighborhood of the nucleus, i.e. the interaction between the electron shell and the nucleus. In conclusion, the author expresses his gratitude to Academician V. A. Fok for valuable advice and to Yu. N. Demkov for assistance and participation in this work. There are 11 references, 3 of which are Soviet.

Card 2/2

24(5)

AUTHORS:

Demkov, Yu. N., Yermolayev, A. M.

SOV/56-36-3-36/71

TITLE:

Fok Expansion for Wave Functions of Systems of Charged Particles (Razlozheniye Foka dlya volnovykh funktsiy sistemy zaryazhennykh ~~chastits~~)

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1959, Vol 36, Nr 3, pp 896-899 (USSR)

ABSTRACT:

Already in 1954 V. A. Fok found out (Ref 1) that the wave function of the  $^1S$ -state of helium and helium-like ions can be expanded in a double series with  $r$ -th and in  $r$ -th degree

( $r = \sqrt{r_1^2 + r_2^2}$ ,  $r_1$  and  $r_2$  - distance of the 1. and 2. electron respectively from the nucleus). Fok also developed a method for the successive determination of development coefficients which turn out to be homogeneous functions of zero-th order of the Cartesian coordinates of the electrons. The authors of the present paper show that such an expansion (which is named after Fok) is of general character and may be applied to any system consisting of an arbitrary number of charged particles. The present paper is intended to generalize the method for such

Card 1/3

Fok Expansion for Wave Functions of Systems  
of Charged Particles

SCV/56-36-3-36/71

systems and for states of any symmetry. The authors proceed from the Schrödinger (Shrodinger) equation of a steady-state wave function in Cartesian coordinates; they then pass on to spherical coordinates in the configuration space and give the solution of this equation in form of a series

$\psi = \sum_n \sum_p a_{np} r^n (\ln r)^p$ . For the  $a_{np}$  a system of equations is then given, which is investigated in the following. For  $n = 1, 2, 3 \dots$  and  $p < n$  the wave function must be set up as

$$\psi = \sum_{n=0}^{\infty} \sum_{p=0}^n a_{np} r^n (\ln r)^p \quad \text{and for } n = 0, 1, 2 \dots k-1 \quad \text{as}$$

$$\psi = \sum_{n=0}^{\infty} \sum_{p=0}^{[n/2]} a_{n+k,p} r^{n+k} (\ln r)^p .$$

Card 2/3



Pok Expansion for Wave Functions of  $S_p$  Ions  
of Charged Particles

307/56-46-3-3 /71

As regards a more detailed investigation of the solution of the system of equations given for the  $a_{sp}$  and also for other problems, reference is made to an article by A. A. Iermol'ev in "Vestnik Leningradskogo universiteta". The authors finally thank V. A. Pok for his valuable advice. There are 4 references, 2 of which are Soviet.

ASSOCIATION: Leningradskiy gosudarstvennyy universitet  
(Leningrad State University)

DATE: September 22, 1956

Card 1/1

YERMOLAYEV, A.M.

Calculation of nonrelativistic S-states of two-electron atoms  
and ions. Vest. LGU 16 no.16:19-33 '61. (MIRA 14:8)  
(Atoms) (Ions)

39870

S/051/62/015/002/009/014  
E032/E314

24.3300

AUTHORS: Yermolayev, A.M., Minkov, I.M. and Vlasov, A.G.

TITLE: A method of calculation of the optical properties of a multilayer coating with a given reflecting power

PERIODICAL: Optika i spektroskopiya, v. 13, no. 2, 1962, 259 - 265

TEXT: The authors consider the design of an n-layer coating with a given reflecting power  $R_N$ , where

$$R_N = R_N(x_0, x_1, \dots, x_N, x_{N+1}, \vartheta, \lambda) \quad (1)$$

$x_j$  are the optical parameters of the media,  
 $\vartheta$  is the angle of incidence, and  
 $\lambda$  the wavelength.

It is required to determine the number of layers  $N$  and the magnitude of the parameters  $x_j$  for which the reflecting power

Card 1/3

A method of ....

S/051/62/015/002/009/014  
E032/E314

$R_N(\lambda)$  in the given wavelength interval and for a given angle of incidence should be described by a given function

$$R_N(x_1, x_2, \dots, x_N, \lambda) = F_0(\lambda) \quad (2)$$

The calculation starts with an assumed approximately known function  $F_0(\lambda)$ , which is denoted by  $R_m$  and contains the arbitrary parameters  $x_j$ . The next approximation is obtained by considering the quantities  $\Phi_m$ ,  $m = m_0, m_0 + 1, \dots$ , which are given by:

$$\Phi_m(\underline{x}) = \int_{\lambda_1}^{\lambda_2} \rho(\lambda) |R_m(\underline{x}, \lambda) - F_0(\lambda)|^k d\lambda, \quad k > 0 \quad (3)$$

In this formula  $\rho(\lambda) > 0$  is a weighting function,

Card 2/3  $\underline{x}$  is a vector whose cartesian coordinates are

S/051/62/015/002/009/014  
EO32/E314

A method of ....

the numerical values of the independent  
parameters  $x_j$  of all the m-layer.

With  $k = 2$  the function  $\Phi_m$  represents the r.m.s. departure  
of  $R_m(\underline{X}, \lambda)$  from the given function  $F_0(\lambda)$ . To each value of  
 $\underline{X}$  there corresponds a certain filter and as  $R_m$  approaches  $F_0$ ,  
 $\Phi_m(\underline{X}) \rightarrow 0$ . The parameters of the multilayer filter are determined  
by varying the components of  $\underline{X}$  until minimum  $\Phi_m(\underline{X})$  is reached..

A complete numerical scheme suitable for use with an electronic  
computer is given and some typical examples are quoted. It is  
assumed that dispersion and absorption are absent but it is said  
that this limitation could easily be removed.  
There are 6 figures and 2 tables.

SUBMITTED: June 8, 1961

Card 3/3

YERMOLAYEV, A.M.; SOCHILIN, G.B.

Ground state / two-electron atoms and ions. Dokl. AN SSSR  
155 no. 5:1050-1053 Ap '64. (MIRA 17:5)

1. Leningradskiy gosudarstvennyy universitet im. A.A.Zhdanova  
i Leningradskoye otdeleniye Matematicheskogo instituta im. V.I.  
Steklova AN SSSR. Predstavleno akademikom V.A.Fokom.

ACCESSION NR: AT4041509

8/2910/63/003/01-/0167/0174

AUTHOR: Yermolayev, A. M., Sochilin, G. B.

TITLE: An exact variational method for computation of the S-states in atoms with two electrons

SOURCE: AN LIUSSR. Litovskiy fizicheskii sbornik, v. 3, no. 1-2, 1963, 167-174

TOPIC TAGS: S state, variational computation method, electron configuration, two electron atom, wave function, Hylleraas equation, variational wave function, helium

ABSTRACT: The variational method is based on Fock's investigation of the Hylleraas equation (Izv. AN SSSR, 18, 161, 1954), a nonrelativistic wave equation for a two-electron atom with infinitely heavy nucleus whose charge is  $Z$ . The variational wave function  $\Psi$  is chosen to be an analytic expression containing variable parameters. This function is chosen so that it represents the behavior of the exact wave function at the potential energy singularities and approaches the same asymptote at infinity. The coefficients of the exponential terms in the wave function expression are then decomposed into Fock's series. Each term of this series is a solution of a certain system of coupled equations on a four-dimensional sphere. The highest term can be determined exactly but the terms of lower order must be obtained from an approximate solution. The resulting variational wave

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ACCESSION NR: AT4041509

function contains arbitrary coefficients of a linear combination of 4-dimensional spherical functions of order  $n = 1, 2, \dots, N + 1$  and accounts for those terms of the Fock's series which describe the behavior of the exact wave function in the vicinity of potential energy singularity. By introduction of auxiliary arbitrary coefficients, the total number of coefficients to be determined is decreased without changing the characteristics of the wave function. The standard Ritz procedure is used to obtain the final solution. An example in which the S state of the helium atom is computed is given. The variational wave function has 30 coefficients and gives a value of energy which could be obtained from a 40-parameter Kinoshita function (T. Kinoshita: Phys. Rev. 105, 1490, 1957 and 115, 366, 1959). The method, as presented in the paper, applies only to two-electron systems in S-states but can be generalized for multi-electron systems. Orig. art. has: 19 equations and 1 table.

ASSOCIATION: Leningradskiy gosudarstvennyy universitet im. Zhdanova (Leningrad State University); Leningradskoye otdeleniye Matematicheskogo instituta im. Steklova (Leningrad Branch of the Steklov Mathematical Institute)

SUBMITTED: 00

ENCL: 00

SUB CODE: NP

NO REF SOV: 003

OTHER: 003

Card

2/3



ACCESSION NR: AP4034536

B/0020/64/155/005/1050/1053

AUTHOR: Yermolayev, A. M.; Sochilin, G. B.

TITLE: Ground State of Two-electron Atoms and Ions

SOURCE: AN SSSR. Doklady\*, v. 155, no. 5, 1964, 1050-1053

TOPIC TAGS: ground atomic state, two electron atom, two electron ion, S state, wave function, numerical computation, quantum mechanics

ABSTRACT: V. A. Fock (Izv. AN SSSR, ser. fiz. 18, 161 (1954)) has given a rigorous method for analysis of the S-state in the vicinity of the singular points. The present authors apply his method for numerical computation of the ground state of H, He, Li<sup>+</sup>, Be<sup>2+</sup>, Be<sup>3+</sup>, O<sup>8+</sup> and Ne<sup>9+</sup>. The expansions used converge rapidly (they have about 30 parameters). The numerical computations were made with the BECM-2 computer of the computer Center of the Leningrad Division of the Mathematical Institute AN SSSR. "The authors are grateful to acad. V. A. Fock for discussions and comments, and to Yu. N. Demkov for discussions." Orig. art. has: no figures, 4 equations, 2 tables.

Card 1/2

ACCESSION NR: AP4034536

ASSOCIATION: Leningralskiy gosudarstvennyy universitet im. A. A. Zhdanova  
(Leningrad State University); Leningradskoye otdeleniye Matematicheskogo instituta  
im V. A. Stcklova Akademii Nauk SSSR (Leningrad Division of the Mathematical  
Institute Academy of Sciences, SSSR)

SUBMITTED: 27Nov63

DATE ACQ: 13May64

ENCL: 00

SUB CODE: NP

NO REF SOV: 003

OTHER: 007

Card 2/2

L 23148-66 ENT(1)/T IJP(c) GG/AT  
 ACC NR: AP6005845 SOURCE CODE: UR/0181/65/008/002/0560/0563

AUTHOR: Yermolayev, A. M.

ORG: Kharkov State University im. A. M. Gorky (Khar'kovskiy gosudarstvennyy universitet)

TITLE: Density of electron states in semiconductors with a Wurtzite lattice

SOURCE: Fizika tverdogo tela, v. 8, no. 2, 1966, 560-563

TOPIC TAGS: semiconductor theory, crystal lattice, crystal surface, crystal symmetry, electron structure, electron transition

ABSTRACT: Previous studies have shown that isoenergetic surfaces of electrons close to energy minima are ellipsoids with a symmetry which reflects the lattice symmetry. It has also been found that toroidal isoenergetic surfaces are preceded by an entire layer of surfaces with a complex topology located between ellipsoids and toroids in semiconductors with a Wurtzite lattice. The author studies the density of electron states and the classical effective mass of carriers in a magnetic field in a lattice of the Wurtzite type for transition from ellipsoidal to toroidal isoenergetic surfaces. Curves are given showing the behavior of the density of

Card 1/2

L 23148-66

ACC NR: AP6006846

states during transition from ellipsoidal isoenergetic surfaces to corrugated toroids, and the effective mass of carriers in a magnetic field as a function of energy. In conclusion I am sincerely grateful to M. I. Kaganov who proposed and directed this work. Orig. art. has: 2 figures, 5 formulas.

SUB CODE: 20/

SUBM DATE: 12Jul65/

ORIG REF: 007/

OTH REF: 001

Card 2/2

YERMOLAYEV, A.N.; SHCHERBATENKO, V.V.; RASPUT'KO, E.N.

[Effect of dynamic loads on bread quality] Vliyanie dinamicheskikh nagruzok na kachestvo khleba. Moskva, Tsentral'noe nauchno-tekhn. informatsii pishchevoi promyshl., 1964. 45 p. (MIRA 18:5)

**YERMOLOV, A.P.**

**Operation of experimental frame-block bridges. Transp.strei. 6  
no.2:32 F '56. (MLRA 9:6)**

**1.Mostovoy master 18-y distantii puti Privolzhskoy doregi.  
(Bridges, Concrete)**

YERMOLAYEV, A.P.

"The Influence of the Preparations of the Blood from Pregnant Mares on Fertility of Cows."

SO: Veterinariya, Vol.27; No.3; 1950; p.43; uncl

YEREMOLAYEV, A.P., kandidat veterinarnykh nauk.

Measure for controlling brucellosis on collective farms. Veterina-  
riia 33 no.6:18-20 Je '56. (MLBA 9:8)

1. Omskiy veterinarnyy institut.  
(Brucellosis--Prevention)



YERMOLAYEV, A.P.

YERMOLAYEV, A.P., kandidat veterinarnykh nauk.

Corn silage increases the productivity of cows. Nauka i pered.  
op. v sel'khoz. 7 no.8:13-14 '57. (MLRA 10:9)

1. Omskiy veterinarnyy institut.  
(Corn (Maize)) (Cows--Feeding and feeding stuffs)

USSR/Farm Animals - Cattle.

Q-3

Abs Jour : Ref Zhur - Biol., No 7, 1958, 30976

Author : Yermolayev A.

Inst : -

Title : What Age is Most Suitable for the First Mating of Heifers?  
(V kakom vozraste naiboleye tselesoobrazno provodit' pervuyu sluchku telok).

Orig Pub : Molochn. i myasnoye zhivotnovodstvo, 1957, No 3, 42-43.

Abstract : According to the author's data, the mating of heifers at an early age (before 18 months of age is attained) has a negative effect upon the fat content in the milk of the primiparae. The best period of mating for the Bestuzhev breed is considered the age between 18 and 23 months.

Card 1/1

- 51 -

YERMOLAYEV, A.

USSR/Farm Animals - Cattle.

Q-3

Abs Jour : Ref Zhur - Bioli; No 7, 1958, 30960

Author : Yermolayev A.

Inst :

Title : The Influence of Sires on the Fatty Milkiness of the Progeny.  
(Ottsovskoye vliyaniye na zhirnoblochnost' potomstva).

Orig Pub : Molochn. i myasnoye zhivotnovodstvo, 1957, No 9, 46-50

Abstract : On the basis of the data obtained from the herd of the Bestuzhev breed of the sovkhos "Urahak" of the Bashkir Spirtotrest, an analysis was effected in regard to the influence of the sires upon the increase of the fatty milkiness of the progeny. The number of daughters had by different sires ranged from 13 to 28; one bull had 54 daughters. The evaluation of sires by progeny was effected by comparing the female offspring. The data regarding production were collected for over 20 years.

Card 1/2

L 04060-67

EMP(R)/EMP(D)/EMP(N) EMP(L)/EMP(T)/EMP(N)

ACC NR: AP6027433

SOURCE CODE: UR/0125/66/000/007/0060/0062

AUTHOR: Yermolayev, A. P. (Moscow); Zlatkis, I. V. (Moscow); Pipko,  
A. I. (Moscow); Pliskovskiy, V. Ya. (Moscow); Puzyriyskiy, Yu. S. (Moscow);  
Tsybul'skiy, I. Ya. (Moscow)

ORG: none

TITLE: Following mechanism for arc welding in an inert gas

SOURCE: Avtomaticheskaya svarka, no. 7, 1966, 60-62

TOPIC TAGS: arc welding, inert gas welding, feed mechanism

ABSTRACT: The article describes the construction details of a new type following mechanism said to assure stability of the geometric dimensions of the welding seam in welding in inert gases with high ionization potentials (for example, helium). (See Fig. 1)

45  
B

Card 1/3

UDC: 621.791.856.03

L 04060-67

ACC NR: AP6027433

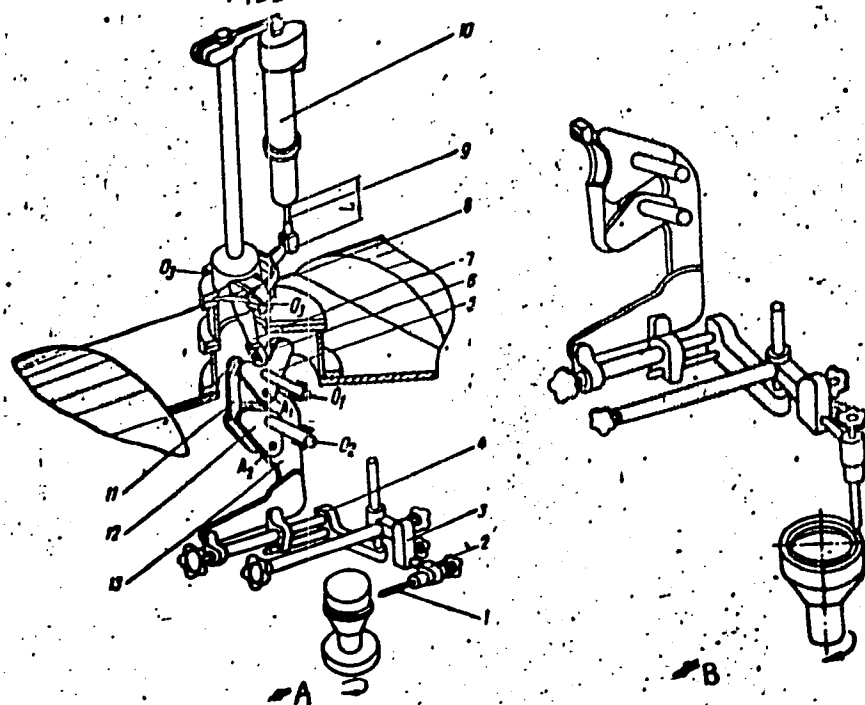


Figure 1.  
Construction of  
following mechanism

a--in position for  
welding seams on a  
cylindrical surface;  
b--the same for an  
end surface.

Card 2/3

L 04060-67

ACC NR: AP6027433

Electrode 1 is fastened to support 13 by means of clamps 2, 3, and 4. Clamp 2 makes it possible to rotate the electrode in a vertical plane and to change its position from the horizontal (Fig. 1, a) to the vertical (Fig. 1, b). Clamps 3 and 4 make it possible to regulate, respectively, the vertical and horizontal positions of the electrode. The support is connected by a swivel joint with levers 12 and 5, which are connected between themselves by link 11. Lever 5, with the aid of link 6 and lever 7, is connected in a swivelling fashion with shaft 9, which can execute forward and backward displacements, activated by a Type MP-100M of SL-161 electric motor, 10, with a built-in reducer. Experimental tests of the mechanism in argon arc welding have shown reliable maintenance of an interelectrode gap of 1 mm, with an accuracy of  $\pm 10\%$ , in a range of welding currents from 15 to 150 amps. The article also gives a detailed diagram of the electric control circuit. Orig. art. has: 2 figures.

SUB CODE: 13/ SUBM DATE: 02Mar66/ ORIG REF: 004

kh

Cord 3/3

VERHOLHYEN, J.S.

AUTHORS: Boldyrev, V.V., Yermolayev, A.S.

76-11-27/35

TITLE: The Catalytic Effect of Solid Products in the Reduction of Nickel- and Copper Oxides by Hydrogen (O kataliticheskoy vliyaniy tverdykh produktov pri vosstanovlenii oksidov nikel'nykh i mednykh vodorodom)

PERIODICAL: Zhurnal Fizicheskoy Khimii, 1957, Vol. 31, Nr 11, pp. 2562-2570 (USSR)

ABSTRACT: The present paper endeavors experimentally to show the presence of the lacking of self-catalysis in the reduction of nickel- and copper oxides by hydrogen. Experimental results show that the metallic nickel and copper forming in the reduction of NiO and CuO by hydrogen exercise a catalytic effect on the velocity of reaction. The catalytic effect of these additions can be imagined by taking the agreement with respect to orientation and the initial oxide according to P.D.Dankov [Ref. 24] into account. If one compares the structure of NiO with that of the  $\beta$ -nickel forming during the reaction, the possibility of an orientation of the first-formed metal layer according to the oxide can be imagined. Here the inter-atomic distance in the nickel lattice increases by about 14% (compared with the normal one). The same seems to occur in the reduction of copper

Card 1/2

The Catalytic Effect of Solid Products in the Reduction of Nickel- and Copper  
Oxides by Hydrogen 76-11-27/35

oxide, but in this case agreement as to orientation must be of a complicated character: 1.) Because of the greater difference of the lattice parameters and types in the initial substance and the reaction product, and 2) Because of the possible occurrence of an intermediate layer of copper oxide. The deforming effect is reciprocal. The catalytical influence of the product can occur only if there is sufficient contact between the product and the initial substance. This explains the reason why a mechanical addition of copper powder exercised no influence upon the velocity of reaction. This is in agreement with published data. There are 8 figures, 2 tables and 25 references, 18 of which are Slavic.

ASSOCIATION: Tomsk State University imeni V.V.Kuybyshev (Tomskiy gosudarstvennyy universitet im. V.V.Kuybysheva)

SUBMITTED: November 2, 1956

AVAILABLE: Library of Congress

Card 2/2



KUZNETSOV, N.D., inzh.; OBOBOTISTOVA, M.L., inzh.; YERMOLAYEV, A.U., inzh.  
YAGUNOV, A.A., inzh.; KRASNOV, A.I.; RYSIN, V.I., inzh.

Exchange of experience among the enterprises of economic  
councils. Torf. prom. 38 no.7:31-34 '61. (MIRA 14:12)

1. Syavakiy lesokhinkombinat Gor'kovskoy oblasti (for  
Kuznetsov).
2. Shaturakiy torfotrest Mosoblsovnarkhoza (for  
Oborotistova).
3. Predpriyatiye Osintorf sovnarkhoza BSSR  
(for Yermolayev).
4. Monetnoye torfopredpriyatiye Sverdlovskogo  
sovnarkhoza (for Yagunov).
5. Makeikha-Zybinskoye predpriyatiye  
Yaroslavskogo sovnarkhoza (for Krasnov).
6. Torfopredpriyatiye  
Radovitskiy mokh Mosoblsovnarkhoza (for Rysin).  
(Peat machinery)

|   |  |    |
|---|--|----|
| YERMOLAYEV, A.V.  |  | 30 |
| <p>PROPERTIES AND PROPERTIES INDEX</p> <p>Plastic masses from rubber. A. V. Yermolayev and V. P. Kurko. Russ. 70,987, April 30, 1937. Into the usual rubber mixt. is introduced during rolling up to 30% (on the rubber) of halogenetic acid.</p> |  |    |
| <p>ASB-SLA DETAILING LITERATURE CLASSIFICATION</p>  |  |    |
| <p>100000 410 000 001</p>   |  |    |
| <p>100000 410 000 001</p>   |  |    |



YERMOLAYEV, A.V.  
L. G. /

*Grade Natural  
Rubber*

Use of high-frequency currents in the rubber industry. A. V. YERMOLAYEV and I. S. OSMANOVSKII (Kauchuk i Rezina, 1960, No. 9, 33-6; I.R.W., 1960, 195, 74). Advantages of using high-frequency current for vulcanizing rubber include the even and quick heating of the entire mass; the ease with which the temperature can be regulated; considerable reduction in the period of time required for vulcanization; and the ease and cleanliness of the process and the possibility of making it continuous. 36789

11/11/11

ALEKSEY KO, L.A.; YERMOLAYEV, A.V.; YEL'CHINSKAYA, L.A.

Effect of some additions on the kinetics of the reduction of  
cadmium oxide by hydrogen. Zhur. fiz. khim. 38 no.6:1640-1642  
Je '64. (MIRA 18:3)

1. Tomskiy gosudarstvennyy universitet.

L 3666-66 ENT(m)/ZPP(c)/EWP(1) RM

ACCESSION NR: AP5017841

UR/0226/65/000/011/0078/0078  
678.763.043

AUTHOR: Terent'yev, A. P.; Yermolayev, A. V.; Rukhadze, Ye. G.; Ippizemtseva, A. V.;  
Bobrova, N. I.; Malaya, Z. I.; Lobova, A. N.

TITLE: Vulcanization process for fluorocarbon elastomers. Class 39, No. 171567 16

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 11, 1965, 78

TOPIC TAGS: fluorocarbon elastomer, vulcanization, vulcanizing agent

ABSTRACT: An Author Certificate has been issued for vulcanizing agents for fluoro-carbon elastomers. To improve the physical and mechanical properties of the vulcanizates and to simplify the vulcanization process, the vulcanizing agents used are cobalt N, N'-ethylenebis(salicylidinimine) and/or titanium salicylidinimine. [SM]

ASSOCIATION: none

SUBMITTED: 21Apr62

ENCL: 00

SUB CODE: MT

NO REF SOV: 000

OTHER: 000

AND PRESS: 4047

Card 1/1

YERMOLAYEV, B. B.

Cand. Veterin Sci.

Dissertation: "Insufficiency of Blood Formation in Horses Affected  
with Infectious Anemia."

6 Jul. 49

Moscow Veterinary ACADEMY

SO Vecheryaya Moskva  
Sum 71

**YEKOLAYEV, B.B., dotent.**

**Etiopathogenesis of diseases in horses with the symptoms of colic.**  
**Veterinariia 30 no.8:33-40 Ag '53. (MLBA 6:8)**

**1. Novocherkasskiy sootekhnicheskoe-veterinariy institut.**