

GORUN, Ye. G. inzh.

Popped corn products. Mik-elev.prom. 25 no.1:25-26 Ja '59.
(MIRA 12:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut konservnoy i
ovoshchesushil'noy promyshlennosti.
(Corn products)

GORUN, Ye.G.

Effect of the type of corn on the yield and quality of flakes.
Kons. i ov. prom. 14 no.6:18-20 Je '59. (MIRA 12:8)

1. Tsentral'nyy nauchno-issledovatel'skiy institut konservnoy i
ovoshchesushil'noy promyshlennosti.
(Corn (Maize)) (Cereals, Prepared)

GORUN, Ye.G.

Determining moisture content by the VCh apparatus during the
manufacture of corn flakes. Kons. i ov. prom. 14 no.8:40-41
Ag '59. (MIRA 12:9)

1. Tsentral'nyy nauchno-issledovatel'skiy institut konservnoy
i ovoshchesushil'noy promyshlennosti.
(Corn (Maize))

LOBANOV, D.I.; GORUN, Ye.G.

Cooking of groats in the production of corn flakes. Kons. i ov.
prom. 14 no.9:27-28 S '59. (MIRA 12:12)

1. Moskovskiy institut narodnogo khozyaystva im. G.V. Plekhanova (for
Lobanov). 2. Tsentral'nyy nauchno-issledovatel'skiy institut konservnoy
i ovoshchesushil'noy promyshlennosti (for Gorun).
(Corn products)

KALASHNIKOVA, L.M., kand.tekhn.nauk; BABICHEVA, O.I., starshiy nauchnyy
sotrudnik; GORUN, Ye.G., starshiy nauchnyy sotrudnik

Technological control of the vegetable dehydrating industry.
Trudy VNIKOP no.9:119-138 '59. (MIRA 14:1)
(Vegetables, Dried)

GORUN, Ye.G., starshiy nauchnyy sotrudnik

Comparing different varieties of corn used in the production
of flakes. Trudy VNIKOP no.10:139-147 '59. (MIRA 14:8)
(Corn products);

CHUN, Ye.G., starshiy nauchnyy sotrudnik

Studying the crushing process of corn in the production of
flakes. Trudy VNIKOP no.10:148-154 '59. (MIRA 14:8)
(Corn products)

~~GORUN, Ye.G.~~, starshiy nauchnyy sotrudnik; MOKAN, L.M., mladshiy
nauchnyy sotrudnik; KORNEVA, O.I., laborant

Production of puffed corn with ingredients. Trudy VNIKOP
no.10:155-158 '59. (MIRA 14:8)

(Corn products)

GORUN, Ye.G.

Objective methods for evaluating the quality of corn flakes.
Kons.i ov.prom. 15 no.2:40-41 F '60.

(MIRA 13:5)

1. Tsentral'nyy nauchno-issledovatel'skiy institut kon ervnoy i ovoshchesushil'noy promyshlennosti.
(Corn products)

GORUN, Ye.G.; KORNEVA, O.I.

Puffed corn. Kons.1 ov.prom. 15 no.8:22-24 Ag '60. (MIRA 13:8)

1. Tsentral'nyy nauchno-issledovatel'skiy institut konservnoy i
ovoshchesushil'noy promyshlennosti.
(Corn products)

GORUN, Ye. G.

Use of corn in the production of dry breakfast foods. Kons.1
ov.prom. 15 no.10:34-37 0 '60. (MIRA 13:10)
(Cereals, Prepared) (Corn (Maize))

GORUN, Ye.G.

Popcorn products. Kons. i ov. prom. 15 no. 12:30-31 D '60.
(MIRA 14:1)
(United States—Pop corn)

GORUN, Ye.G.

Conference on the utilization of corn in the food industry. Kons.1
ov.prom. 16 no.4:46-47 Ap '61. (MIRA 14:3)
(Corn(Maize)-Congresses) (Food industry)

GORUN, Ye.G.; DMITRIYEV, Ye.T.; KORNEVA, O.I.; DUBOVA, G.I.

Technology of the production of food concentrates from corn meal.
Trudy VNIKOP no.11:77-81 '62. (MIRA 17:9)

GORUN, Ye.G.; KORNEVA, O.I.

Using yellow corn for flakes. Kons. i ov. prom. 16 no.10:28-29
0 '61. (MIRA 14:11)

1. Tsentral'nyy nauchno-issledovatel'skiy institut konservirovaniya i
ovoshchesushil'noy promyshlennosti.
(Corn (Maize))

GORUN, Ye.G.

Conference on the use of corn for the manufacture of flakes and
popcorn. Kons.1 ov.prom. 17 no.7:46-47 J1 '62. (MIRA 15:6)
(Ukraine--Cereals, Prepared)

GORUN, Ye.G.; DMITRIYEVA, Ye.T.

Food concentrates made with corn flour. Kons.i ov.prom. 17
no.9:6-8 S '62. (MIRA 15:8)

1. Tsentral'nyy nauchno-issledovatel'skiy institut konservnoy i
ovoshchesushil'noy promyshlennosti.
(Corn products) (Food, Concentrated)

GORUN, Ye.G.; MASLENNIKOVA, A.P.

Manufacture of wheat and corn flour mixes for pancakes. Kons.1
ov.prom. 18 no.5424 My '63. (MIRA 16:4)

1. Tsentral'nyy nauchno-issledovatel'skiy institut konservnoy
i ovoshchesushil'noy promyshlennosti (for Gorun). 2. Upravleniye
torgovli khleboproduktami Ministerstva torgovli RSFSR (for
Maslennikova).

(Food, Concentrated)

GORUN, Ye. G.; YANCHENKO, A.G.

Chemical and technological properties of the promising popcorn hybrids. Kons. i ov. prom. 18 no.11:38-39 N '63.

(MIRA 16:12)

1. Tsentral'nyy nauchno-issledovatel'skiy institut konservnoy i ovoshchesushil'noy promyshlennosti.

GORUNEANU, M.

Fuel

✓ Attempts to desulfurize coking coal. I. The sulfur compounds in coking coals used in the Rumanian Peoples Republic. I. Blum, M. Goruneanu, and Th. Piatkowski. *Acad. rep. populare Romane, Bur. Stiint., Sec. Stiint. Teh. Chim.* 4, No. 1-2, 101-8 (1952) (French summary).—Coals from two regions (Banat and the river Jiu valley) were analyzed in the light of their utilization in coking. The predominant source of S in the Banat coal is of an org. nature, while in the Jiu valley coal the S is half pyritic and half org.
Gary Gerard

3

6-08 UNK-100, 10/10

Utilization of sulfur from gases formed in distillation of coal. Maria Coruțeanu, *Res. chim. (Rumania)* 4, No. 3, 16-10 (1953); *Referat. Zhur. Khim.* 1953, No. 7185. — S. in coal is found in the form of sulfides, sulfates, and org. compds. In the course of distn. of coal these compds. undergo various chem. changes transforming partly into H₂S, CS₂, mercaptans, thiophenes, etc. The existing methods for the purification of gases of the above mentioned deleterious app. corroding products are reviewed. Methods for utilization of H₂S for the production of H₂SO₄ for agricultural use and for the production of elemental S are described. — M. Horsch

gpc

Gorky, M.

Chemical Technology. Chemical Products and Their Application. Chemical Processing of Solid Fossil Fuels.

E-22

The Jour: Ref Zhur-Khin., No 2, 1959, 3952.

Author : Kisi, I.; Bolshi, V.; Suro, I.; Shumilina, G.; Gelshtein, M.; Gogman, M.; Kozlov, N.; Pankov, N.; Pankov, N.; Suro, I.

List Title : Chemico-Technological Study of Peat in RW. Report II. Mechanical Treatment and Processes of Chemico-Technological Treatment of Peat in RW.

Orig Pub: Studii si cercetari aerosp., 1956, 6, No 3, 265-279.

Abstract: It was found in the laboratory study of briquetting that the strength of briquets does not increase noticeably with the rise of pressure above 1500 kg

Card : 1/2

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per sq. cm. The optimum moisture in peat, producing strongest briquets depends on the granulometric composition of peat and changes together with it. The temporary resistance to bending of briquets produced was 77 - 36 kg per sq. cm. 5% cracks or more was produced, when briquets were dropped from a height of 3 m on a cement floor. The briquets disintegrated when immersed in water. In the extraction of peat with a mixture of alcohol and benzene (1 : 1), the yield of the extract varied between 3.8 and 18.5% of the combustible mass depending on the character of peat. See Zhurnal, 1957, 6562 for report I. - N. Bogdanov.

Card : 2/2

RUMANIA / Chemical Technology, Chemical Products and H
Their Application, Part 1. - Water Treatment
Sewage.

Abs Jour: Ref Zhur-Khimiya, No 18, 1958, 61380.

Author : T. Ionescu, C. Fostiropol, M. Goruneanu,
V. Cristoloveanu.

Inst : Polytechnical Institute Bucharest.

Title : Treatment of Water by Coagulation in Presence
of Activated Silica.

Orig Pub: Bul. Inst. politehn. Bucuresti, 1956, 18,
No 1 - 2, 59 - 64.

Abstract: Experimental results of water coagulation in
the presence of activated silica (AS) are pre-
sented. $Al_2(SO_4)_3$, $Fe_2(SO_4)_3$ and $FeSO_4$ were
used as coagulants. AS was prepared by adding
3%-ual H_2SO_4 drop by drop to a freshly prepared

Card 1/3

GORUNESCU, G., ing.; MUNTEANU, Gh.; TODORAN, Aurel, ing.

Reduction of specific metal consumptions. Probleme econ
18 no.1:163-165 Ja '65.

1. Technical Director, "Progresul" Plant, Braila (for Gorunescu).
2. Planning Chief Engineer, "Progresul" Plant, Braila (for Munteanu).
3. Head of the Service of Technology, "Progresul" Plant, Braila (for Todoran).

GORUNOV, G. V., SHCHUKIN, Ye. D., ROZHANSKIY, V. N., and PERTSOV, N. V.

"Unhomogeneous Plastical Deformation and eht Effect of Surface-Active
Mediums on the Mechanical Properties of Crystals."

paper presented at the Conf. on Mechanical Properties of Non-metallic Solids,
Leningrad, USSR, 19-26 May 58,

Moscow State Univ., Inst. of Physical Chem. Acad. Sci. USSR, Moscow.

GORUNOV, N.S.

S/062/63/000/003/003/018
B101/B186AUTHORS: Izvekov, V. I., and Corbunov, N. S.

TITLE: Determination of the absorption coefficient when studying diffusion in metallic oxides

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Otdeleniye khimicheskikh nauk, no. 3, 1963, 450 - 454

TEXT: It has been suggested in previous papers (Fizika metallov i metallovedeniye, 7, no. 5, 1959, 713 - 721; Inzhenerno-fizicheskiy zh., 4, 119 (1961)) to cover the oxides with an Fe⁵⁹ layer and to measure the absorption coefficient μ of the Fe⁵⁹ radiation in aluminum foils of different thickness. The mass absorption coefficient μ_m of the Fe⁵⁹ β -radiation may be calculated from $-\mu_m (\ln N - \ln N_0) / d_{\max}$, where N is the radioactivity for a film thickness d , and d_{\max} is the thickness at which the straight line $\ln N = f(d)$ intersects the abscissa. As $\mu_m = u/\rho \approx \text{const}$ for substances

Card 1/2

Determination of the absorption ...

8/062/63/000/003/003/018
B101/B186

with $z \leq 30$, μ is derived to be 99.2ρ for the linear absorption coefficient, where ρ is the density. The present paper provides additional data for the diffusion of Fe^{59} in TiO_2 after annealing at 952, 995, or 1049°C.

The following was found for the diffusion coefficient of Fe in rutile:

$D = 3.21 \cdot 10^{-2} \exp(-35500/RT)$. This is in good agreement with the data obtained by the layer stripping method. There are 3 figures and 1 table.

ASSOCIATION: Institut fizicheskoy khimii Akademii nauk SSSR (Institute of Physical Chemistry of the Academy of Sciences USSR)

SUBMITTED: June 7, 1962

Card 2/2

GORUNOVIC, M.

~~SURNAME~~ (in caps); Given Names

Country: Yugoslavia

Academic Degrees: not given

Affiliation: not given

Source: Belgrade, Arhiv za Farmaciju, Nr 6, 1960, pp 510-514.

Data: Book review: "Medicinal Raw Material," Symposium.

GORUNOVIC, M.
SURNAME (in caps); Given Names

Country: Yugoslavia

Academic Degrees:

Affiliation: Institute for Pharmacognosia of the Pharmaceutical Faculty
(Institut za farmakognosiju Farmaceutskog fakulteta), Belgrade

Source: Belgrade, Arhiv za Farmaciju, No 2, 1961, 111-116.

Data: "Contribution to the Pharmacognosia Investigation of Our Rhamnus
Frangula L."

Authors:

LUKIC, Predrag, Docent Dr.

SAVIN, K.

GORUNOVIC, M.

GORUNOVIC, M.

- 2013 Grade, Article in International, 721 12, 40 1, 1962. (LIP)
1. "The quantitative determination of iodine and potassium iodide in solution." M. GORUNOVIC and C. MAURICZAK-SZYMCZYK in the Journal of Pharmacy, 1962, pp 1-4.
 2. "A contribution to the quantitative determination of the amount of iodine, oxygen, chlorine, and potassium iodide in the presence of iodine." M. GORUNOVIC and C. MAURICZAK-SZYMCZYK in the Journal of Pharmacy, 1962, pp 11-13.
 3. "A contribution to the determination of the protein fractions of milk." M. GORUNOVIC, N. J. ALJAVIC, and J. MAURICZAK-SZYMCZYK in the Journal of Pharmacy, 1962, pp 11-13.
 4. "Studies in Pharmacy." M. GORUNOVIC and J. MAURICZAK-SZYMCZYK in the Journal of Pharmacy, 1962, pp 11-13.
 5. "The significance of enzyme determination in modern medicine." M. GORUNOVIC in the Journal of Pharmacy, Faculty of Pharmacy, 1962, pp 45-48.
 6. "A contribution to the study and rational exploitation of medicinal herbs in the people's republics of Serbia, Montenegro, and Macedonia." M. GORUNOVIC and J. MAURICZAK-SZYMCZYK in the Journal of Pharmacy, Faculty of Pharmacy, 1962, pp 49-52.
 7. "Field study of medicinal herbs." M. GORUNOVIC and J. MAURICZAK-SZYMCZYK in the Journal of Pharmacy, Faculty of Pharmacy, 1962, pp 53-56.
 8. "Natural medicinal and aromatic plants in the Jadranski Park." M. GORUNOVIC and J. MAURICZAK-SZYMCZYK in the Journal of Pharmacy, Faculty of Pharmacy, 1962, pp 57-60.

YUGOSLAVIA

F. LUKIC, M. GORUNOVIC, and N. KRSTIC, Department of Pharmacognosy
(Institut za Farmakognoziju) School of Pharmacy (Farmaceutski fakultet)
Belgrade.

"Quality of Imported Teas (Theae folium) Used in Our Country."

Belgrade, Arhiv za Farmaciju, Vol 12, No 5, 1962; pp 313-316.

Abstract [German summary modified]: Analysis of 6 Indian and 1 Soviet
(Georgian) tea specimens marketed in Yugoslavia. All were more than
adequate in complying with requirements of the Yugoslav Pharmacopoeia
(minimum caffeine 2%, maximum ashes 6%). Soviet tea had 2.8 caffeine,
20% aqueous extractive substances; Indian 3 to 4.8 caffeine, 25 to 33
extractives. Three tables, 3 Yugoslav, 2 German, 1 Soviet 1 Polish
reference.

1/1

TUCAKOV, Jovan (Beograd); CORUNOVIC, Momcilo (Beograd)

Field studies of medicinal plants as a complement to the teaching of pharmacognosy to the pharmacy students of the Pharmaceutical Faculty, Belgrade. Farmaceut gl Zagreb Supplement (18) no.5:57 '62.

1. Institute of Pharmacognosy of the Pharmaceutical Faculty, University of Belgrade, Belgrade.

YUGOSLAVIA

P. LUKIC, N. KRSTIC and M. GORUNOVIC, Department of Pharmacognosy of the Faculty of Pharmacy of University (Farmakognosticki zavod Farmaceutskog fakulteta Univerziteta,) Belgrade.

"Pharmacognosy of the Rumex Genus. Part 3. Tannin Concentrations in Roots and Leaves of Some Experimentally Cultivated Species of Rumex of Domestic and Import Origin."

Belgrade, Arhiv za Farmaciju, Vol 13, No 2, 1963; pp 89-92.

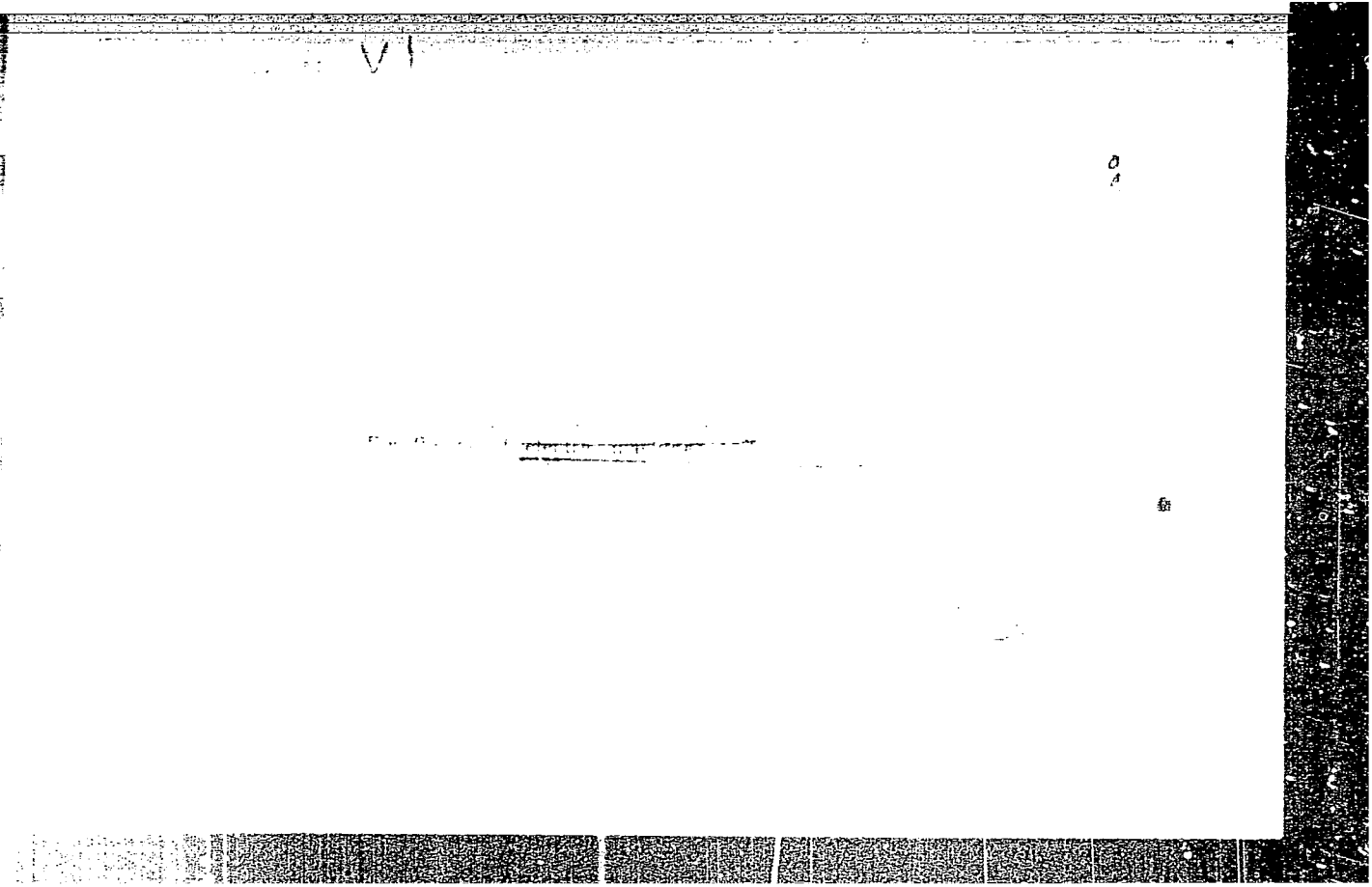
Abstract [German summary modified]: Report of study of 10 species of Rumex (crispus L., domesticus Hartm., salicifolius Weirm., patientia L., aquaticus L. var max., pulcher L., altissimus L., orbiculatus A. Grey, conferius Willd., and pallidus Big.) grown in herb garden in Belgrade: tannin and anthraquinone concentrations in roots and leaves of each are tabulated and shown graphically. Graph, table, 3 Yugoslav references.

1/1

GORUSHKIN, V. I.

"Linear transformations and matrical computations", by Candidate of Technical Sciences V. I. Gorushkin, at the Power Engr. Inst. im KPZHIZHANOVSKIY of the Acad. S^ce. USSR.

SO: Elektrichestvo, No 5, Moscow, May 1947 (U-5533)



GORUSHKIN, V. I.

USSR/Electricity
Power Plants, Electric
Frequency Control

Feb 49

"Contemporary Methods of Regulation of Frequency and Power Exchange in Power Systems,"
I. M. Markovich, V. I. Gorushkin, Power Eng Inst imeni G. M. Krzhizhanovskiy, Acad
Sci USSR, 11 pp

"Iz Ak Nauk SSSR, Otdel Tekh Nauk" No 2

Discusses systems of frequency regulation and control of power supply to various stations. Decides that most practical system is one where changes in the load of separate stations are assigned by the dispatcher, who is guided by value of total load variation, power reserve in frequency-controlling station (one station is charged with frequency regulation), and considerations of economy. While this system mechanizes the functions of station watch personnel, it is hard on the dispatcher. Submitted by Acad G. M. Krzhizhanovskiy, 8 Jul 48.

PA 33/49 T29

GORUSHKIN, V. I.

Sept 49

USSR/Engineering - Power Plants, Electric
Power, Distribution of

"Automatic Distribution of Operating Loads in an Electric Power System," I. S. Bruk,
Corr Mem, Acad Sci, I. M. Markovich, Dr. Tech Sci, V. I. Gorushkin, S. A. Sovalov,
Candidates Tech Sci, 4 pp

"Elektrichestvo" No 9

Description of automatic load distributing device "RAM," developed in 1946-1947 in
ENIN (Power Eng Inst, Acad Sci USSR) Lab. Device permits optimum distribution of
operating loads between stations of electric power systems, from standpoint of oper-
ating economy. Includes three diagrams.

PA 153T45

B-64
1

GORUSHKIN, V. I.

SA

DYNAMIC STABILITY OF A SYNCHRONOUS GENERATOR WITH A EXCITATION REGULATOR.
 V. I. Gorushkin. Izv. Akad. Nauk, SSSR, Otdel. Tekh. Nauk(No. 1) 79-88
 (Jan., 1950) In Russian.

A mechanical integrator was used to solve simultaneous equations representing with some simplifications the behavior of the system when subjected to sudden changes of state, e.g short circuit or disconnecting of a line. It is shown that dynamic stability is obtained when excitation of the generator is regulated according to the angular velocity and acceleration of rotor displacement. Regulation based on the displacement itself and not on its functions, although satisfactory under static conditions is not sufficient under dynamic conditions.

J. Lukaszewicz.

ASB-11.6 METALLURGICAL LITERATURE CLASSIFICATION

FROM SOURCE

COLLECT GOR ONY 111

USSR/Engineering - Mechanics Jul 51

"On Stresses Under Torsion in a Round Bar Weakened by a Prismatic Cavity," D. I. Sherman

"Iz Ak Nauk ESSR, Otdel Tekh Nauk" No 7, pp 969-995

Analyzes torsion of hollow body whose cross section represents area limited outside by circumference and inside by square with rounded vertices and explains how to study torsion of box profile with similar boundaries. Develops methods which may be used for soln of certain problems in the mech of continuous medium, such as detn of pressure in rocks, problems on stressed condition in unlike parts linked by force fit, strength of rotating

205T12

USSR/Engineering - Mechanics (Contd) Jul 51

discs weakened by several holes, etc. Submitted by Acad L. S. Leybenzon (deceased) 16 Dec 50.

205T12

GORUSHKIN, V. I.

USSR/Engineering - Electrical Engineering Dec 51

"On the Stability of Synchronous Generator When Its Excitation Is Regulated by Stator Current," G. V. Mikhnevich, V. I. Gorushkin

"Iz Ak Nauk SSSR, Otdel Tekh Nauk" No 12, pp 1769-1776

Investigates static characteristics, static stability and dynamic stability of compounded synchronous generator at various values of regulation coeff and discusses results. Regulation of in- tion under certain conditions may provide for in- crease of static as well as dynamic stability and
205T22

USSR/Engineering - Electrical Engineering Dec 51
(Contd)

thus increase carrying capacity of long-distance elec power lines. Submitted Acad A. V. Vinter.

205T22

GORUSHKIN, V.I.

B. T. R.
Vol. 3 No. 3
Mar. 1954
Electrical
Engineering

3186* Stability of a Synchronous Generator With Ionic
Exciter. (Russian.) V. I. Gorushkin. *Izvestia Akademii Nauk
SSSR, Otdelene Tekhnicheskikh Nauk*, 1953, no. 5, May, p.
653-663.
Discusses static stability problems. Describes regulations by
starter current, voltage, and displacement angle of rotor. Sug-
gests three methods of quickly increasing voltage. Graphs, tables.
4 ref.

GORUSHKIN V. I.

Zubkov P. I. and Gorushkin V. I., "Increasing the Stability of Synchronous Generators by Regulating Excitation in Slipping and Speeding up the Rotor;" Izvestiya Akademii Nauk SSSR / News of the Academy of Sciences USSR, OTN, 1953, No. 9, Pages 1262-1281, 7 figures; bibliography, 12 items.

GORUSHKIN, V. I.

AID P - 1279

Subject : USSR/Electricity

Card 1/1 Pub. 27 - 3/30

Authors : Venikov, V. A., Doc. of Tech. Sci., Prof., Ivanov-Smolenskiy, A. V., Kand. of Tech. Sci., Dotsent and Gorushkin, V. I., Kand. of Tech. Sci.

Title : Problem of efficiency in forcing up the generator field

Periodical : Elektrichestvo, 1, 12-19, Ja 1955

Abstract : The determination of dynamic stability with the help of a network analyzer is compared with the calculation on a mechanical computer. This helps explain several factors usually not considered, particularly the limiting capacity of long power transmission lines with forcing up of the field. The theoretical and the actual results in a simple case coincide closely. Eleven diagrams and oscillograms, 2 tables, 5 Russian references (1941-1954).

Institution : Moscow Power Engineering Institute im. Molotov; Power Engineering Institute of the Academy of Sciences, USSR.

Submitted : My 20, 1954

AID P - 3252

Subject : USSR/Electricity

Card 1/2 Pub. 27 - 7/25

Authors : Meyerovich, E. A., Doc. Tech. Sci., Prof., V. I. Gorushkin, Kand. Tech. Sci., and Z. B. Golebo, Kand. Tech. Sci.

Title : Computation of currents and voltages in an electric power system feeding asymmetrical loads

Periodical : Elektrichestvo, 9, 32-39, S 1955

Abstract : The authors present a method of computing currents and voltages in a three-phase system feeding an unsymmetrical load at several points. The method is based on the division of the whole system into two parts: one symmetrical, the other asymmetric. The operating conditions of the symmetrical part are found by the method of symmetrical components. Currents and voltages in connecting points are determined by the method of successive approximations. The conditions of convergence applied for electric power system calculations are analyzed. The same method is applied in an example to calculate asymmetrical currents and

AID P - 3252

Elektrichestvo, 9, 32-39, S 1955

Card 2/2 Pub. 27 - 7/25

voltages in an electric power system feeding from five substations the contact line network of a railroad operating on single-phase a-c current. Three tables, 6 connection diagrams, and 8 Soviet references, 1 - 1936, 7 - 1949-1954.

Institution : Power Engineering Institute of the Academy of Sciences, USSR, and Trust for the Planning and Investigation of Thermal and Electric Power Plants, Networks and Substations.

Submitted : My 31, 1955

Gorushkin, V. I.

USSR/ Scientific Organization - Conferences

Card 1/1 Pub. 124 - 26/30

Authors : Popkov, V. I., and Gorushkin, V. I.

Title : Long distance delivery of electric power

Periodical : Vest. AN SSSR 25/7, 123-124, Jul 1955

Abstract : Minutes are presented of a scientific meeting held at the G. M. Krzhizhanovskiy Energetics Institute where problems of rural electrification and long distance electric power delivery were discussed.

Institution :

Submitted :

GORUSHKIN, V.I., kandidat tekhnicheskikh nauk; GOLEMBO, Z.B., kandidat tekhnicheskikh nauk.

Method for approximate calculation of voltage and current unbalance in substations supplying an out-of-balance load. Elektrichestvo no.10:22-24 0 '56. (MLRA 9:11)

1. Energeticheskiy institut Akademii nauk SSSR. (for Gorushkin);
2. Toplodelektroproyekt Ministerstva elektrotantsii (for Golembo).
(Electric power distribution)

GORUSHKIN, V.I., kandidat tekhnicheskikh nauk.

**Long-distance power transmission. Elektrichestvo no.11:
92-93 N '56. (MLRA 9:12)**

**1. Energeticheskiy institut imeni Krshishanovskogo Akademii
nauk SSSR.**

(Electric power distribution)

GORUSHKIN V. I.

AUTHORS: Krzhizhanovskiy, G. M., Veyts, 105-58-4-34/37
V. I., Baum, V. A., Gorushkin, V. I.,
Nekrasov, A. M., Markovich, I. M., Tolstov, Yu. G.

TITLE: V. I. Popkov, Corresponding Member of the AS USSR
(Chlen-korr. AN SSSR V. I. Popkov)

PERIODICAL: Elektrichestvo, 1958, Nr 4, pp. 94-94 (USSR)

ABSTRACT: On the occasion of his 50th birthday and his 25th anniversary of scientific activity. Valeriy Ivanovich Popkov was born in February 1908. His activity as engineer started in the Dzerzhinskiy Works in 1930. In 1932 he worked at the All Union Institute for Electrical Engineering and began with the elaboration of lightning protective plants for energy systems. His main activity was devoted to the problem of corona discharge. In 1934 he began a great work at the ENIN of the AS USSR concerning the investigation of d. c. corona. In the course of this he elaborated the theory of dipolar corona and experimentally

Card 1/2

V. I. Popkov, Corresponding Member of the AS USSR

105-58-4-34/37

determined a number of important physical parameters in this field. In 1948 he became Dr. of Technical Sciences and Director of the Group for the Investigation of Corona Discharge at the Institute for Power Engineering of the AS USSR. Under his direct charge the research works on the corona are coordinated in the various institutes of the Union. He wrote 40 scientific works. In 1953 he became Corresponding Member of the AS USSR. Since 1953 he has been First Vice Director of the Institute for Power Engineering imeni G. M. Krzhizhanovskiy of the AS USSR and President of the Department for Electrical Power Engineering of the Scientific Council (Ucheny soviet). There are 1 figure.

AVAILABLE: Library of Congress

1. Biography

Card 2/2

AUTHOR: Gorushkin, V. I. SOV/30-58-9-26/51

TITLE: News in Brief (Kratkiye soobshcheniya) Transactions of the Congress on Electrical Power Engineering (Elektroenergeticheskiy s"yezd)

PERIODICAL: Vestnik Akademii nauk SSSR, 1958, ^{Vol. 24,} Nr' 9, pp. 94 - 95 (USSR)

ABSTRACT: The congress was arranged by the Pol'skaya Akademiya nauk (Polish Academy of Sciences) together with the Soyuz pol'skikh elektrotekhnikov (Association of Polish Electrical Engineers) and was held in Zoppot (Sopot) near Danzig (Gdan'sk) from May 19 - 22. Guests from Bulgaria, Hungary, China, Roumania, the USSR, Czechoslovakia, Jugoslavia were present. The Soviet delegation consisted of V.I.Gorushkin, A. V.Lykov, Z.B. Nikitin, M.L.Raman, I.G.Kheyl', G.M.Shchegolev. A number of problems connected with the plan of the electrification of Poland were discussed. The Polish Academy of Sciences in 1956 has established a committee of experts from industrial enterprises, scientific institutions, universities, and the administrative apparatus which is to elaborate a 15-years plan for the electrification (1960-1975). J.Jakubowski,

Card 1/2

News in Brief. Transactions of the Congress on Electrical SOV/30-58-9-26/51
Power Engineering

Member, Academy of Sciences, Poland, was appointed president of this committee. The Polish experts K.Kopecki , Z.Jasicki, A.Kopyscianski reported on methodical problems. The Soviet delegation presented 4 reports, among them one prepared by G.M.Krzhizhanovskiy and V.I.Veyts on the technical and economical principles of the uniform power system in the USSR.

Card 2/2

Gorushkin V.I.

MASS I BOOK REPRINTS 609/507

Abstracts and book reprints published in O.K. Enkhbayarsan's...
Abstracts and book reprints published in O.K. Enkhbayarsan's...
Abstracts and book reprints published in O.K. Enkhbayarsan's...

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Abstracts and book reprints published in O.K. Enkhbayarsan's...
Abstracts and book reprints published in O.K. Enkhbayarsan's...

Table listing authors and titles such as 'Mikheylov, V.I. Some Special Features of Pasture Development in Power Engineering in the U.S.S.R.', 'Sakharov, A.G. Methods of Determining Technological-Economic Indices of Rural Electrical Networks', etc.

GORUSHKIN, V. I.

1946), 8(10) PHASE I BOOK EXPLOITATION SOV/3071
Akademiyu nauk SSSR, Energeticheskii Institut
Elektronosvetlika, TPB. 1 (Electric Power Engineering, Nr 1) Moscow,
1959. 159 p. Errata slip inserted. 2,800 copies
printed.

Eds. of Publishing House: P. F. Ogarkov and Ye. M. Orlov'skiy; Tech.
Ed.: Ye. V. Zelenkova; Editor: Yu. C. Tolstov; Doctor of
of Technical Sciences, Senior Engineer: M. Markovich; Doctor of
Technical Sciences, Senior Engineer: V. I. Zubkov; Candidates of Technical Sci-
ences, P. I. Zubkov, Candidates of Technical Sciences, V. I. Levitov,
C. V. Kinnam'skiy, Candidates of Technical Sciences, M. D. Bol'shov (Secretary)
Candidates of Technical Sciences, and M. D. Bol'shov (Secretary)

PURPOSE: This collection of articles is intended for specialists
in the various fields of electric power engineering treated in it.

COVERAGES: The first issue of the collection of articles,
"Elektrosvetlika", appeared in April 1959. It is published by
ENIN (encl. G. M. Krushinovskiy of the Academy of Sciences, USSR.
The articles in this issue are based on research and work by the
authors under the auspices of ENIN. The articles are on a high
theoretical and technical level and represent original contribu-
tions to various practical problems in electrical engineering.
References are given after most of the articles.

Eschenbly, G. E., and G. V. Ribnashchik. Equivalent Circuit of 98
Station Generators Equipped With Strong-Action Regulators

The author presents a method of representing a group of
station generators by two identical generators, equivalent to
the group in their static characteristics. The method is used
in studying static stability and the nature of transients of
station generators. There are 6 references, all Soviet.

Gorushkin, V. I. Application of the Method of Successive Approx- 105
imations for Calculating Complex Electrical Networks

There are 7 references, all Soviet.

Golitskiy, M. A. Transformation of a Single-phase System Into a
Three-phase Using Static Devices According to a Scheme Developed
By P. A. Kalantarov and L. A. Tsytlin
The method used consists in employing capacitors in the
circuit. The author derives formulas expressing the trans-
formation. There are 3 references, all Soviet.

Aronson, M. Z. Properties of a Certain Type of Oscillatory 117
Circuit

No references are given.

Golitskiy, M. A. Application of a Series of Functions for the
Derivation of Formulas of Various Numerical Methods for Solving
Ordinary Differential Equations 120

There are 3 references, all Soviet.

Stokolnikov, I. S. The Mechanism of Discharge in Large Gap 127
Spacing for Alternating Current

The author, a well-known specialist in problems of lightning
protection, investigated the mechanism of discharge at in-
terval frequency and at various spacings of the air gap,
all of them having practical applications. On the basis of
several experiments, using various types of circuits and
varying the parameters, the author concludes that the elec-
tric strength of a given spacing is not subject to sub-
stantial change when direct parameters are varied. There
are 8 references: 2 Soviet, 4 English and 2 German.

SOV/24-59-2-26/30

AUTHOR: Gorushkin, V. I. (Moscow)

TITLE: Conditions of Synchronization of a Synchronous Generator with a Non-Linear Asynchronous Characteristic (Usloviya sinkhronizatsii sinkhronnogo generatora s nelineynoy asinkhronnoy kharakteristikoy)

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Energetika i avtomatika, 1959, Nr 2, pp 144-146 (USSR)

ABSTRACT: Experiments showed that it is possible to allow a synchronous generator to run in an asynchronous manner for a short time. This can be utilized for starting or stopping its motion after a breakdown (Ref 1). A simplified equation of motion of the rotor can be shown as Eq (1), where δ - angle between the longitudinal rotor axis and that of the rotational magnetic force of this stator, D - moment of damping, β - moment of rotation. The limiting value of D can be defined as Eq (2) (Ref 7). The integral curves of δ and S were obtained experimentally by the Power Institute of the Academy of Sciences USSR (Refs 8 and 9). The diagrams of phases were constructed for different values of the parameters α , S_0 and β . Two points at the axis δ were determined from Eq (4): one of

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SOV/24-59-2-26/30

Conditions of Synchronization of a Synchronous Generator with a Non-Linear Asynchronous Characteristic

these at $\delta < \frac{1}{2}\pi$ represents the stable equilibrium and the other, $\delta > \frac{1}{2}\pi$ - unstable equilibrium (Ref 4). Three types of the possible phase characteristic are represented in Fig 1. The first type, I, has only one (unstable) limiting cycle, while the type II has two cycles (stable and unstable) and the type III has none. For the given parameters α and S_0 , the type of phase depends on the moment of rotation β . If β is smaller than a certain value β_2 , then the type I (Fig 1) is obtained. In this case it is necessary for the synchronization that the point at the initial moment of rotation is placed below the unstable cycle. If β is greater than a certain value β_1 , then the limiting cycles do not exist (type III, Fig 1) and the two points should be placed below the separation in order to obtain synchronization. Similarly, the two points

Card 2/4

SOV/24-59-2-26/30

Conditions of Synchronization of a Synchronous Generator with a
Non-Linear Asynchronous Characteristic

should lie below the separation when $\beta_2 < \beta < \beta_1$, which is the case of type II. Fig 2 illustrates the limiting values of the moments of rotation β_2 (continuous line) and β_1 (dotted line) in relation to S_0 for various α . The values of $\beta = \beta_0$ obtained from Eq (2) are shown as broken lines. It can be seen from Fig 2 that for $S_0 > 5$ the phase of the type I can be determined for the conditions Eq (5). The verification of the self-synchronization of the generator can be performed in two operations. The phase type should be determined from Fig 2 if $S_0 < 5$ or from Eqs (2) and (5) for greater values of S_0 . Second, the initial values of δ_* and S_* should be determined and plotted on the phase diagram. In the case of the II and III types, the conditions of synchronization coincide with the conditions of dynamic stability, while for the I type the points should be situated below the unstable

Card 3/4

SOV/24-59-2-26/30

Conditions of Synchronization of a Synchronous Generator with a
Non-Linear Asynchronous Characteristic

limiting cycle. The latter can be recognized when the
sliding becomes a periodic function of the angle δ and
the amplitude of vibration of sliding is small. There are
2 figures and 9 references, of which 6 are Soviet, 1 French,
1 German and 1 English.

ASSOCIATION: Energeticheskii institut, AN SSSR (Power Institute,
Academy of Sciences, USSR)

SUBMITTED: December 18, 1958.

Card 4/4

GORUSHKIN, V.I.; ZUBKOV, P.I. [deceased]

Concerning one criterion of the static stability of synchronous generators. *Elektronergetika* no.2:55-60 '60. (MIRA 14:3)
(Electric generators)

GORJSEKIN, V.I. (Moskva)

Asynchronous characteristic of an excited synchronous generator.
Izv. AN SSSR, Otd. tekhn. nauk. Energ. i avtom. no.6:165-167 M-D
'60. (MIRA 13:12)

(Electric generators)

GORUSHKIN, V.I., doktor tekhn.nauk; MALKHAS'YAN, I.V., inzh.; AZAR'YEV,
D.I., kand.tekhn.nauk

Electric power engineering in Finland. Elektrichestvo no.1:
86-89 Ja '61. (MIRA 14:4)

! (Finland--Electric power)

POPKOV, V.I.; TOLSTOV, Yu.G.; STEKOL'NIKOV, I.S.; MEYEROVICH, E.A.;
MOSKVITIN, A.I.; TAFT, V.A.; GORUSHKIN, V.I.; SOVALOV, S.A.;
LIBKIND, M.S.

Sixtieth birthday of I.M. Markovich. Elektrichestvo no.5:
87 My '61. (MIRA 14:9)
(Markovich, Isaak Moiseevich, 1901-)

GORUSHKIN, Vadim Ivanovich, doktor tekhn. nauk; VENIKOV, V.A., prof.,
doktor tekhn. nauk, laureat Leninskoy premii, red.;
KHRUSTALEVA, N.I., red.; VORONINA, R.K., tekhn. red.

[Use of electronic computers in power engineering calculations]
Vypolnenie energeticheskikh raschetov s pomoshch'iu vychisli-
tel'nykh mashin. Pod red. V.A.Venikova. Moskva, Vysshaya
shkola, 1962. 174 p. (MIRA 15:9)
(Electronic calculating machines) (Power engineering)
(Electric network analyzers)

GORUSHKIN, V.I.

Concerning a certain criterion of static stability.
Elektrichestvo no.1:92 Ja '62. (MIRA 14:12)
(Electric machinery, Synchronous)

GCRUSHKIN, V.I.; KOVAL'KOV, G.A.; KOZLOVSKIY, G.F.; LUTIDZE, Sh.I.;
MARKOVICH, I.M.; MEYEROVICH, E.A.; MIKHNEVICH, G.I.;
POPKOV, V.I.; STEKOL'NIKOV, I.S.; TAFT, V.A.; TOLSTOV, Yu.G.

Sixtieth anniversary of the birth of A.I. Moskvitin. Elektrichestvo
no.4:94 Ap '62. (MIRA 15:5)

(Moskvitin, Anatolii Ivanovich, 1902-)

3902
S/105/62/000/007/002/004
E200/E135

9,7100

AUTHORS: Gorushkin, V.I., Doctor of Technical Sciences;
Krumina, A.A., Engineer; and
Latysheva, T.S., Engineer

TITLE: On extending the range of problems solvable by means
of small digital computers

PERIODICAL: Elektrichestvo, no.7, 1962, 28-29

TEXT: The difficulties connected with the strict limitation
of the range of numbers in small computers may be avoided to a
great extent by resorting to operations over numbers represented
in "normal form". Any number in normal form is represented as

$$x = q_x^{2^{P_x}}$$

(1)

where $1/2 \leq q_x < 1$; q_x is the mantissa, P_x is the order of
magnitude. The number represented in such form is recorded in
two adjacent memory storage cells of the computer: in one cell
one records the mantissa q_x and the other $P_x \cdot 2-30$.

Card 1/4

39028

On extending the range of problems... S/105/62/000/007/002/004
E200/E135

All arithmetic operations may be carried out over numbers represented in normal form. However, in most machines there are no commands for such operations. The arithmetic operations with such numbers are carried out by means of special programs. The rules for carrying out arithmetic operations over numbers represented in normal form are given below. Addition is carried out as follows: say the numbers $A = q_A \cdot 2^{PA}$ and $B = q_B \cdot 2^{PB}$

+

are to be added. First one equates the orders and the difference $PA - PB$ is found. Then if $PA - PB < 0$, then q_A is multiplied by $2^{(PA - PB)}$ and added to q_B :

$$\begin{aligned}
C = A + B &= q_A \cdot 2^{PA} + q_B \cdot 2^{PB} = \\
&= (q_A \cdot 2^{PA - PB}) \cdot 2^{PA} + q_B \cdot 2^{PB} = \\
&= (q_A \cdot 2^{PA - PB} + q_B) \cdot 2^{PB} = q_C \cdot 2^{PC}.
\end{aligned}
\tag{2}$$

Card 2/4

On extending the range of problems...

3902B
S/105/62/000/007/002/004
E200/E135

If $P_A - P_B > 0$ then q_B is multiplied by $2^{P_B - P_A}$ and is added to q_A :

$$\begin{aligned}
 C = A + B &= q_A 2^{P_A} + q_B 2^{P_B} = q_A 2^{P_A} + \\
 &+ (q_B 2^{P_B - P_A}) 2^{P_A} = (q_A + q_B 2^{P_B - P_A}) 2^{P_A} = q_C 2^{P_C}.
 \end{aligned}
 \tag{3}$$

For multiplication the mantissas are multiplied together and the orders are added:

$$A \cdot B = (q_A 2^{P_A})(q_B 2^{P_B}) = (q_A q_B) 2^{P_A + P_B}.
 \tag{4}$$

Division is carried out thus:

$$\frac{A}{B} = \frac{q_A 2^{P_A}}{q_B 2^{P_B}} = \frac{q_A}{q_B} 2^{P_A - P_B} = q_C 2^{P_C}
 \tag{5}$$

Card 3/4

On extending the range of problems...

39023
S/105/62/000/007/002/004
E200/E135

Programs for multiplication and division are written directly in the base program. The program for addition and subtraction is used as an independent routine. The method described above makes it possible to use fixed point computers of type M-3 (M-3) to carry out operations over numbers lying between the limits of

$2^{-2^{30}}$ and $2^{2^{30}}$ or approximately between $10^{-300\ 000\ 000}$ and $10^{300\ 000\ 000}$ (the machines "Strela" and "Ural-2" operate with numbers in the range from 10^{-19} to 10^{19}). Thus it is possible to "transform" a fixed point computer into a floating point one.

ASSOCIATION: Energeticheskii institut im. Krzhizhanovskogo
(Power Engineering Institute imeni Krzhizhanovskiy)

SUBMITTED: September 25, 1961

Card 4/4

LATYSHEVA, Tamara Sergeevna; GORUSHKIN, V.I., doktor tekhn.nauk,
otv. red.; LETNEV, B.Ya., red.izd-va; SIMKINA, G.S.,
tekhn. red.

[Programming and problem solving on two-address machines]
Programirovanie i reshenie zadach na dvukh adresnykh mashinakh.
Moskva, Izd-vo AN SSSR, 1963. 182 p. (MIRA 16:10)
(Programming (Electronic computers))

BRAILOV, V.P. (Moskva); GORUSHKIN, V.I. (Moskva); DENISOV, V.I. (Moskva);
ZAKHARIN, A.G. (Moskva); KUZ'MINA, A.A. (Moskva); POLYANSKAYA,
T.M. (Moskva)

Optimization of the selection of fuels for thermal electric power
plants and boiler systems in long-range planning. Izv. AN SSSR.
Energ. i transp. no.4:514-524 J1-Ag '63. (MIRA 16:11)

GORUSHKIN, V.I.; SHUL'GIN, N.V.

Individual consideration of the stator and rotor and
stator of a synchronous machine. Elektroenergetika no.7:72-
83 '63. (MIRA 16:9)

The structure of the
simultaneous homologous
carbons / B. K. Pender
1954

INST. ORGANIC CHEM.

Handwritten initials

Rubber compositions for coating cables
Shtab. G. I. Gerasimova, G. I. Dubrovina, G. I. Ponomareva,
S. M. P. Vashchik, I. G. S. B. 127 113

GORUSHKINA GORUSHKINA G. I.

О СОСТАВЕ СОЕДИНЕНИИ РЯДА БЕНЗИЛА
И ТИОФЕНА И ЛЕГКИХ ФРАКЦИЙ СМАЗЫ
ТЕРМИЧЕСКОГО РАЗЛОЖЕНИЯ СРЕДНЕМОЛТЖСКИХ
СТАНЦЕВ САВЕЛЬЕВСКОГО МЕСТОРОЖДЕНИЯ
В. И. Федорова, К. А. Гольдфард, Г. И. Горюхины

VIII Mendeleev Congress for General and Applied Chemistry in
Section of Chemistry and Chemical Technology of Fuels,
publ. by Acad. Sci. USSR, Moscow 1979

abstracts of reports scheduled to be presented at above national congress,
Moscow, 13 March 1979.

SOV/80-32-2-32/56

AUTHORS: Angert, L.G., Gol'dfarb, Ya.L., Gorushkina, G.I., Zenchenko, A.I., Kuz'minskiy, A.S., Fedorov, B.P.

TITLE: Syntheses of Some Thiophene Derivatives and the Study of Their Behavior as Ingredients of Resins (Accelerators and Antioxidants) ((Sintezy nekotorykh proizvodnykh tiofena i izucheniye ikh povedeniya v kachestve ingrediyyentov rezina (uskoriteley i antioksidantov))

PERIODICAL: Zhurnal prikladnoy khimii, 1959, Vol XXXII, Nr 2, pp 408-418 (USSR)

ABSTRACT: A total of 15 compounds of the thiophene series were investigated as ingredients of resin mixtures. They all contained the azomethine group $\text{XC}_4\text{H}_2\text{SCH} = \text{NRY}$, where X is hydrogen or CH_3 -, R an aliphatic or aromatic radical, Y a substituting group. Secondary amines were prepared by heating thenyl dichloride with amines in a solution of benzene or toluene. The products of this reaction, their melting and boiling points, analyses and yields are given in Table 2. These compounds inhibit the oxidation of rubber. The inhibiting action is due to the nature of the ortho- and paragroups in the benzene ring. As a control sample rubber containing phenyl- β -naphthylamine was used in the experiments. The thenyl group $\text{C}_4\text{H}_3\text{SCH}_2$ - has nearly the same inhibiting influence

Card 1/2

SOV/80-32-2-32/56

Syntheses of Some Thiophene Derivatives and the Study of Their Behavior as Ingredients of Resins (Accelerators and Antioxidants)

as the phenyl group. The most pronounced effect have the inhibitors 5-methyl-2-thienylidene-n-aminophenol, 2-thenyl- β -naphthylamine, etc. The synthesized compounds were tested also as vulcanization accelerators on the rubbers SKB, SKS-30, SKN-26 and NK. Most effective were 2-mercapto-4-(2'-thienyl)-thiazole and di-2-thenylideneethylenediamine. The thenylidene group had a greater effect on vulcanization acceleration than the benzene ring.

There are 5 tables, 1 graph and 20 references, 10 of which are Soviet, 3 American, 3 English, 2 German, and 2 French.

SUBMITTED: May 13, 1957

Card 2/2

FEDOROV, B.P.; GORUSHKINA, G.I.; GOL'DFARB, Ya.I.

Synthesis of secondary amines of the thiophene series.
Zhur.ob.khim. 31 no.12:3933-3939 D '61. (MIRA 15:2)

(Amines)
(Thiophene)

FEDOROV, B.F.; GORUSHKINA, G.I.; GOL'DFARB, Ya.L.

Syntheses of the derivatives of N-substituted dithiocarbamic
acids of the thiophene series. Zhur. org. khim. 1 no.4s
777-787 Ap '65. (MIRA 18:11)

GORUSHKINA, L. P.

Dissertation: "The Effect of Alloying Elements on Certain Physicomechanical Properties of Cast Iron With Globular Graphite." Cand Tech Sci, Khar'kov Polytechnic Inst, Khar'kov, 1953. (Referativnyy Zhurnal--Khimiya; Moscow, No 4, Feb 54)

SC: SUM 243, 19 Oct 1954

GORUSHKINA, L. P.

137-58-3-5934

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 3, p 211 (USSR)

AUTHORS: Farafonov, Ye. Ye., ~~Gorushkina, L. P.~~

TITLE: Improving the Physico-mechanical Properties of Spheroidized Cast Iron by Means of Alloying with Nickel, Nickel-chromium, and Nickel-chromium-molibdenum (Povysheniye fiziko-mekhanicheskikh svoystv chuguna s sharovidnym grafitom putem legirovaniya nikelom, nikelom i khromom, nikelom, khromom i molibdenom)

PERIODICAL: Tr. Khar'kovsk. politekhn.in-ta, 1957, Vol 9, Nr 1, pp 17-28

ABSTRACT: An examination of the effect of single and complex additives, consisting of Ni, Mo, and Cr, on the improvement of the base metal and the physico-mechanical properties of spheroidized cast iron (SCI). Investigations were conducted on a SCI of the SPG-11-45 type with 0.5 percent-0.7 percent-0.9 percent-1.1 percent and 2.0 percent additions of Ni. It is established that optimum distribution of structural constituents and best ratio of strength and plastic characteristics of cast iron is achieved by concurrent addition of Ni, on the order of 1.0 percent, and of

Card 1/3

137-58-3-5934

Improving the Physico-mechanical Properties (cont.)

0.06 percent of Mg; the improvement in mechanical properties is attributable to the strengthening of the ferrite caused by the formation of a solid solution and by the sorbitization of its structure; the machinability of the cast iron is not impaired, however. It is noted that wear-resistance indices increase also. The authors stress the favorable effect of the addition of 1.0 percent of Ni which reduces quasi-isotropy almost to zero. When added in amounts exceeding 1.0 percent, the Ni in conjunction with Si has merely a graphitizing effect and lowers the mechanical properties of cast iron. In case of combined alloying of cast iron with Ni and Cr the σ_b increases by 14 percent on the average, while the σ_b compr., the a_k , and the deflection increase by 13 percent,

20 percent, and 17 percent, respectively; the δ attains a 4 percent value. In the case of concurrent alloying with Ni and Mo the σ_b increases by 14-17 percent on the average, while the a_k increases by 25-30 percent. In combined alloying with Cr and Ni, as well as with Cr, Ni, and Mo, high values of $E_{tens.}$ and $E_{compr.}$ were obtained (on the order of 1.6×10^6 to 1.83×10^6 and 1.6×10^6 to 1.9×10^6 , respectively). A proper selection of alloying elements refines the precipitation of the spheroidal graphite somewhat, in connection with which certain improvements in mechanical properties, particularly of E , are observed. Owing to the combined alloying the field of application of SCI Card 2/3

137-58-3-5934

'Improving the Physico-mechanical Properties (cont.)

as a substitute for components made of steel, non-ferrous metals, and alloys, may be widened even more to reduce the weight of structures below current levels.

S. Sh.

Card 3/3

GORUSHKINA, L. P.

137-58-4-8246

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 4, p 273 (USSR)

AUTHORS: Gorushkina, L. P., Kashirskiy, A. V.

TITLE: Titanium Alloying of Iron (Legirovaniye chugunov titanom)

PERIODICAL: Tr. Khar'kovsk. politekhn. in-ta, 1957, Vol 11, pp 143-148

ABSTRACT: The results of investigations in a new field to determine the effect of Ti on the properties and structure of VCh-40 spheroidal-graphite cast iron (I). Mechanical properties and microstructure were studied. It was found that in such I, Ti acts as a carbide-former, inhibits the precipitation of graphite spheroids, facilitates structural fineness in the base metal and more specifically of the graphite, both spheroidal and flaky. No improvement in mechanical properties was noted. It is expected that reduction in wear and improvement in the corrosion resistance of the I will be achieved.

Yu. I.

1. Cast iron--Mechanical properties--Effects of titanium
2. Cast iron--Structure--Effects of titanium
3. Titanium
--Applications

Card 1/1

GORUSHKINA, L.P.

High quality cast iron with spheroidal graphite as structural material in the manufacture of mining machinery. Sbor.nauch. trud. KHGI 5:357-367 '58. (MIRA 14:4)

(Cast iron—Metallography)
(Machinery industry)
(Mining machinery)

S/128/60/000/007/014/017/XX
A105/A033

AUTHORS: Farafonov, Ye.Ye, and Gorushkina, L.P.

TITLE: Alloying of Nodular Cast Iron

PERIODICAL: Liteynoye proizvodstvo, 1960, No. 7, pp. 24-26

TEXT: Tests of the physical and mechanical properties of nodular cast iron alloyed with copper, chromium, nickel and molybdenum are described. Chemical composition and structure of inspected cast irons are shown in Table 1 and their mechanical properties in Table 2. The influence of copper on the wear resistance of nodular cast iron was tested on a MW(MI) device by the friction method at a pressure of 100 and 150 kg/sq cm on 30XГСА (30KhGSA) steel brace hardened to 57.5. The abrasion coefficient was determined by weighing the specimens and the gage brace at intervals between 1,000-75,000 revolutions. The Curve 1 in Fig.2 corresponds to Ч 12-28 (SCh 12-28) cast iron; Curve 2 to ВЧ 45-1.5 (VCh 45-1.5) cast iron without copper and Curve 3 to ВЧ 45-1.5 (VCh 45-1.5) cast iron with copper. It was established that even small quantities of copper increase the wear resistance of nodular cast iron. Card 1/5

Alloying of Nodular Cast Iron

S/128/60/000/007/014/017/XX
A105/A033

The addition of copper to the cast iron led to a negligible decrease in shrinkage from 1.4 to 1.3%. After the usual annealing for 4 hours at 850°C, cooling down to 200°C and subsequent air cooling the nodular cast iron had a mainly ferritic structure with small quantities of undecomposed pearlite. The mechanical properties after annealing are shown in Table 3. The alloying elements and their quantities were determined according to recommendations in respect of gray cast iron with laminated graphite and also on account of previous tests on nodular iron. A characteristic of complex alloyed cast iron is the considerable crushing of pearlite. Complex alloying increases the tensile strength, especially if copper, nickel or molybdenum are used. The elasticity increases to $1.6-1.7 \cdot 10^6$ in case of copper and chromium and to $1.7-1.8 \cdot 10^6$ kg/sq cm in case of copper, nickel and molybdenum, as compared to $0.6-0.8 \cdot 10^6$ of grey iron and $1.1-1.2 \cdot 10^6$ of non-alloyed nodular cast iron. The shrinkage of nodular cast iron alloyed with copper and chromium was higher (1.5%) than that of non-alloyed nodular cast iron (1.4%). Alloying with nickel, molybdenum and copper reduced the shrinkage to 1.3-1.35%. Alloying with copper and chromium decreased the flowability of the metal, while alloying with copper, nickel and molybdenum did not affect it at all. There are 5 tables and 2 figures.

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Alloying of Nodular Cast Iron

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Table 1:

1) No. of heat; 2) Chemical composition; 3) Structure; 4) Prior to pickling; 5) After pickling; 6) Coarse graphite flakes; 7) Finely whirled graphite; 8) Spheroidal graphite; 9) Spheroidal graphite; 10) Medium-size spheroidal graphite; 11) Mixed spheroidal graphite; 12) Coarse-laminated pearlite, small ferrite section; 13) Laminated pearlite, small ferrite parts; 14) Laminated pearlite, ferrite fringes around graphite; 15) Fine-laminated pearlite, fine ferrite fringes around graphite; 16) Laminated pearlite, now and then ferrite fringes; 17) Fine-laminated pearlite, insignificant ferrite parts.

Таблица 1

1) № плавки	2) Химический состав в %								3) Структура	
	C _{об}	C _{св}	Si	Mn	P	S	Mg	Cu	4) до травления	5) после травления
1	3,41	1,11	2,25	0,8	0,12	0,05	—	—	Грубые пластинки графита	Грубопластинчатый перлит, небольшие участки феррита
2	3,47	0,99	2,48	0,69	0,12	0,04	—	0,05	Мелкий завыренный графит	Пластинчатый перлит, небольшие участки феррита
3	3,42	0,90	2,80	0,8	0,14	0,016	0,06	—	Шаровидный графит	Пластинчатый перлит, оторочки феррита вокруг графита
4	3,33	1,18	2,74	0,61	0,15	0,012	0,06	0,6	Шаровидный графит	Тонкопластинчатый перлит, тонкие оторочки феррита вокруг графита
5	3,40	0,90	2,48	0,42	0,13	0,014	0,07	0,91	Шаровидный графит, средний	Пластинчатый перлит, изредка феррит в виде оторочек
6	3,44	1,19	2,86	0,52	0,15	0,012	0,04	1,08	Смешанный шаровидный графит	Тонкопластинчатый перлит, небольшие участки феррита

Alloying of Nodular Cast Iron

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Table 2

Таблица 2

1) № названия	2) Механические свойства					НВ
	$\sigma_{0.2}$ в кг/мм ²	δ в мм	σ_b в кг/мм ²	$\sigma_{сж}$ в кг/мм ²	α_K в кг/см ²	
1	28,4	4,5	12,7	80,8	—	149
2	39,6	2,8	17,2	88,0	—	255
3	82	3,8	45,3	188,0	0,16	302
4	87,0	2,4	87,2	174	0,83	286
5	104,6	2,9	81,4	183	0,43	278
6	87,5	2,4	81,0	172	0,38	321

3) * Данные испытания образцов 10x10 мм с надрезом.

- 1) No. of heat
- 2) Mechanical properties
- 3) Test data from notched 10 x 10 mm specimens

Card 4/5

Alloying of Nodular Cast Iron

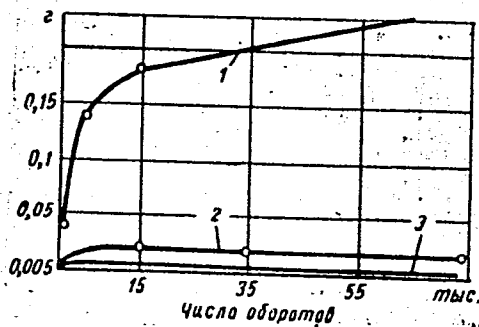
S/128/60/000/007/014/017/xx
A105/A033

Table 3

Таблица 3

Сu в %	Mg в %	$\sigma_{\text{изг}}$ кг/мм ²	δ в мм	$\sigma_{\text{д}}$ кг/мм ²	δ в %	$\sigma_{\text{сжс}}$ кг/мм ²	ψ в %	$\sigma_{\text{д}}$ кг/см ²	HB
—	0,04	92,0	3,5	45,3	0,6	168	—	0,45	302
—	0,06	94,6	18	40,6	6,6	254	64	1,87	185
0,91	0,07	104,6	2,9	51,4	1,0	193	—	0,43	277
0,89	0,01	103,2	18	50,6	14	245	60	2,0	185

Figure 2



No. of revolutions

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GORUSHKINA, L.P.; PRIKHOD'KO, N.M.; SELIVERSTOV, A.O.; CHERNYSH, S.I.;
BESPALKO, V.K.

Use of quick-hardening mixtures. Lit. proizv. no. 2:39 F '61.
(MIRA 14:4)
(Sand, Foundry)

PA 60T6

GORUSHKINA, YE. A.

USSR/Chemistry - Platinum
 Chemistry - Organic Compounds
 Jul 1947

"Alkyl Compounds of Platinum," A. Gel'man, Ye. Gorushkina, Izv. Gos. Inorg. Khim. imeni N. S. Kurnakova, Acad. Sci. USSR, 2 pp

"Dok. Akad. Nauk SSSR, Nova Ser." Vol. LVII, No. 1

Describes experiments which enabled authors to obtain complex metalorganic compounds of platinum with pyridine and ethylene diamine of type $[(C_2H_5)_2Pt(Py)_2]$ and $[(C_2H_5)_2Pt(EN)_2]$.

6006

GORUSHKINA, Ye. A.

USSR/Chemistry - Platinum Compounds
Chemistry - Isomers

Jan 1947

"The Formation of the Third Isomer of Ethylene-Ammonia-Chloride-Bromide Platinum," A. Gel'man, Ye. Gorushkina, Inst Gen and Inorg Chem imeni N. S. Kurnakov, Acad Sci USSR, 3 pp

"Dok Akad Nauk SSSR, Nova Ser" Vol LV, No 1

Describes experiments in which it was found possible to synthesize third isomer of ethylene-ammonia-chloride-bromide platinum; possible only after forming a group of atoms with ethylene in a cation. Submitted by Academician I. I. Chernyyev, 3 Jul 1946.

PA 58T12

GORUSHKINA, Ye. [A.]

Alkyl compounds of platinum. A. D. Gel'man and Ye. Gorushkina—(Gorushkov Inst. Gen. Inorg. Chem., Moscow). *Doklady Akad. Nauk S.S.S.R.* 37, 43-4 (1947); *Chem. Zvest.* 1948, 1, 1138; cf. C.A. 43, 1078c. —Mixed metalloorg. compds. of Pt with pyridine and with ethylenediamine were prepd. Me_2PtCl_2 was obtained in theoretical yield by heating a soln. of Me_2PtCl_2 in benzene with pyridine. The reaction proceeded rapidly and smoothly. The fine, light-yellow crystals formed were readily sol. in hot benzene and alc. The compd. gave no pyridine when heated for a long time in water and H_2SO_4 . This is evidence that the pyridine is bound to the Pt by a coordinate linkage. Me_2PtCl_2 was obtained as fine crystals by heating Me_2PtCl_2 in benzene with ethylenediamine. Recrystd. from hot water yielded bright, glinting needles having the formula $[(Me_2Pt(en))_2]_2$. The mol. cond. at $v = 10,000$ and $t = 25^\circ$ was $\mu = 274.24$. $[Me_2Pt(NH_3)_2]Cl$ was prepd. by the action of NH_3 on a soln. of Me_2PtCl_2 in benzene. NH_3 was lead into the soln. until the latter became colorless. The fine crystals were readily sol. in water and alc. M. G. Moore

GORUSHKINA, Ye.A.
CA

10

The production of alkyl compounds of platinum from Zeise's salt. Anna D. Gel'man and Ye. A. Gorushkina. *Doklady Akad. Nauk S.S.S.R.*, 37, 259-61 (1947); *Chem. Zvest.* (Russian Zone Ed.) 1948, 1, 1287. The Pt in the ethylene salts of Zeise is to be regarded as quadrivalent. Although attempts to replace the C_2H_4 by NH_3 , pyridine, NO_2^- , or CN^- have yielded compds. with bivalent Pt, the salt Me_2PtI_2 (in which the Pt is quadrivalent) was successfully prepd. by the action of $MeMgI$ on the Zeise K salt, $K_2[PtCl_6]$. The $MeMgI$ was prepd. from 3 g. Mg + 30 g. MeI in 50 cc. ether. C_2H_4 (100 cc.) was added, then 10 g. $K_2[PtCl_6]$ in small portions, next HCl to dissolve the $Mg(OH)_2$, and the compd. recrystl. from hot C_2H_4 in the usual manner. Derivs. prepd. in like manner were: $[Me_2Pt(2C_2H_5N)]$, $[Me_2Pt(NH_3)_2]$, $[PtMe_2SO_2]$, and Me_2PtCl_2 . M. G. Moore

ISUPOV, Yu.G.; GORUSTOVICH, A.M.; SARKISOV, G.M.

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