

VERESHCHAGIN, S.M.; TYSHCHENKO, V.P.

Study of trace and summation phenomena in the nervous system  
of insects. Nerv. sist. no.5:29-39 '64.

(MIR 18:3)

1. Laboratoriya sravnitel'noy fiziologii i kafedra entomologii  
Leningradskogo gosudarstvennogo universiteta.

TYSHCHENKO, V.V.

New genus and new species of spiders (Aranei) from Kazakhstan.  
Ent. oboz. 44 no.3:696-704 '65. (MIRA 18:9)

Inst. kafedra entomologii Leningradskogo gosudarstvennogo universiteta  
imeni A.A.Zhdanova, Leningrad.

VERESHCHAGIN, S.M.; SYTINSKIY, I.A.; TYSHCHENKO, V.P.

Blocking effect of gamma-aminobutyric acid on the central  
synapses of insects. Nerv. sist. no.4:108-110 '63  
(MIRA 18:1)

1. Fiziologicheskiy institut Leningradskogo universiteta.

VERESHCHAGIN, S.M.; SYTINSKIY, I.A.; TYSHCHENKO, V.P.

Effect of gamma-aminobutyric acid on giant nerve fibers in the earthworm. Fiziol. zhur. 49 no.7:879-881 31 1963.

(MIRA 17:11)

7. Fiziologicheskiy institut imeni Ukhtomskogo Gosudarstvennogo universiteta, Leningrad.

TYSHCHENKO, Ye.; BERESHCHUK, N., red.; NAGIBIN, P., tekhn. red.

[On the eve of taking the frontiers] Nakanune shturza  
rubezhei. Alma-Ata, Kazsel'khozgiz, 1962. 26 nos.in 1 v.  
13 p. (MIRA 17:1)

1. Direktor Ubinskogo sovkhoza Vostochno-Kazakhstanskoj  
oblasti (for Tyschenko).

CHIZHEVSKIY, A.L., professor (Karaganda); TIMOFEYEVICH, A.V., zaveduyushchiy;  
TYSHCHENKO, Z.A., glavnyy vrach.

Electric reaction of the precipitation of red blood corpuscles; preliminary  
report. Klin.med. 31 no.3:60-63 Mr '53. (MLRA 6:5)

1. Klinicheskaya laboratoriya khirurgicheskogo otdel'niya Karagandinskoy  
oblastnoy bol'nitsy (for Timofeyevich). 2. Karagandinskaya oblastnaya bol'  
nitsa (for Tyshchenko). (Blood--Corpuscles and platelets)

CHIZHEVSKIY, A.L., professor (Karaganda); TIMOFEYEVICH, A.V., zaveduyushchiy;  
TYSHCHENKO, Z.A., glavnyy vrach.

Electric reaction of the precipitation of red blood corpuscles; preliminary report. Klin.med. 31 no.3:60-63 Mr '53. (MLRA 6:5)

1. Klinicheskaya laboratoriya khirurgicheskogo otdel'niya Karagandinskoy oblastnoy bol'nitsy (for Timofeyevich). 2. Karagandinskaya oblastnaya bol'nitsa (for Tyshchenko). (Blood--Corpuscles and platelets)

TYSHCHUK, A.A. (Kiyev)

Study of geometry at the eight-year school. Mat. v shkole no.3:35-39  
My-Je '59. (MIRA 12:9)  
(Geometry--Study and teaching)



TYSHCHUK, D. N.; BABICHEV, V. G.

PPK-15m air-feed leg drill. Gor. zhur. no.11:74 N '62.  
(MIRA 15:10)

1. Krivorozhskiy gornorudnyy institut (for Tyshchuk).
2. Nauchno-issledovatel'skiy gornorudnyy institut, Krivoy Rog  
(for Babichev).

(Boring machinery—Pneumatic driving)

AUTHORS: Sidorova, N. G., Tyshchuk, G. Kh. SOV/77-28-8-6/66

TITLE: Cycloalkylation of Aromatic Compounds (Tsikloalkilirovaniya aromaticeskikh soyedineniy) XV. Condensation of Fluorene With Cyclohexanol in the Presence of Aluminum Chloride (XV. Kondensatsiya fluorena s tsiklogeksanolom v prisutstvii khloristogo alyuminiya)

PERIODICAL: Zhurnal obshchey khimii, 1958, Vol. 28, Nr 8, pp. 2030-2032 (USSR)

ABSTRACT: This paper is a continuation of earlier papers (Ref 1) which describe the condensation of fluorene with cyclohexanol in the presence of  $AlCl_3$ . The end product of this reaction was a cyclohexylfluorene<sup>3</sup> of unknown structure (m.p. 133<sup>o</sup>). The authors carried out several condensations with different amounts of  $AlCl_3$  and with equimolecular amounts of both components. With increased and with decreased amounts of aluminum chloride the yield of alkylation product was inferior (maximum: 32,9 % with 0,85 g.  $AlCl_3$ .aq.). Besides the alkylation reaction a dehydration of the<sup>3</sup> cyclohexanol and a polymerization of the resulting cyclohexene occurred, which indicated

Card 1/3

Cycloalkylation of Aromatic Compounds.

XV. Condensation of Fluorene With Cyclohexanol in the Presence of Aluminum Chloride

SOV/79-28-8-6/66

clearly how the cyclohexanol was being used up. In order to ascertain the position of substitution to produce cyclohexylfluorene this compound was oxidized under pressure in dilute nitric acid at 140-150°, which produced 2-fluorocarbonic acid and which was then used to make the methyl ester. By dehydrating the cyclohexylfluorene in the presence of platinum black a new product, a 2-phenylfluorene, was produced. Both reactions clearly indicate that the condensation product is 2-cyclohexylfluorene (Formula I). To study this new hydrocarbon a mono-nitro derivative was prepared. Since all electrophilic substitution reactions in the fluorene molecule take place at the 2 and 7 positions, this compound probably has the structure (II). There are 1 table and 3 references, 1 of which is Soviet.

ASSOCIATION: Sredneaziatskiy gosudarstvennyy universitet  
(Central Asia State University)

SUBMITTED: July 4, 1957

Card 2/3

Cycloalkylation of Aromatic Compounds.

OV/71-02-8-6/66

IV. Condensation of Fluorene With Cyclohexanol in the Presence of Aluminum Chloride

Card 3/3

SIDOROVA, N.G.; TYSHCHUK, G.Kh.

Cycloalkylation of aromatic compounds. Part 15: Condensation of fluorene with cyclohexanol in the presence of aluminum chloride. Zhur. ob. khim. 28 no. 8:2030-2032 Ag '58. (MIRA 11:10)

1. Sredneaziatskiy gosudarstvennyy universitet.  
(Fluorene)  
(Cyclohexanol)  
(Condensation products(Chemistry))

TYSHCHUK, N.F., ekonomist

Improved spray burner for feed stea-ers. Zhivotnovodstvo 21  
no.7:81 Ja '59. (MIRA 12:9)

1. Belogorskaya remontno-traktornaya stantsiya, Belogorskiy  
rayon, Khmel'nitskaya oblast'.  
(Burners)

TYSHCHUK, Ye.A.

Plastic skin surgery in injuries of the foot. Ortop., travm. i  
protez. 21 no.11:25-30 '60. (MIRA 14:4)  
(FOOT—WOUNDS AND INJURIES) (SKIN GRAFTING)

TYSHCHUK, Ye.A.

Use of homoplastic and fibrin film in arthroplasty of the interphalangeal and the metacarpophalangeal joints. *Xhirurgiya* 35 no. 5:52-59 My '59. (MIRA 13:10)

1. Iz patologoanatomichskoy laboratorii (zav. - prof. P.V. Sipovskiy) i otdeleniya neotlozhnoy travmatologii (zav. - dotsent S.Ye. Kashkarov) Leningradskogo nauchno-issledovatel'skogo instituta travmatologii i ortopedii (dir. - prof. V.S. Balakina). (BLOOD AS FOOD OR MEDICINE) (HAND--SURGERY)



TYSHCHUK, Ye.A.

Comparative evaluation of anesthesia methods in surgical interventions on the extremities. Trudy Len.gos.nauch.-issl.inst.travm.i ortop. no.8:25-31 '61. (MIRA 15:9)  
(EXTREMITIES (ANATOMY)—SURGERY) (ANESTHESIA)

TYSHCHUK, Ye.A.

Pathological changes in newly formed metacarpophalangeal joints following arthroplasty. Trudy Len.gos.nauch.-issl.inst.travn.i ortop. no.7:161-169 '58. (MIRA 13:6)

1. Iz otdeleniy patologoanatomicheskogo i neotlozhnoy travmatologii Leningradskogo gosudarstvennogo nauchno-issledovatel'skogo instituta travmatologii i ortopedii. (JOINTS--DISEASES) (PLASTIC SURGERY)

TYSHCHUK, Ye.A.

Anatomical characteristics of the pain syndrome in fractures of the radius in a typical location. Ortop.travm. i protez. 20 no.1:34-37  
Ja '59. (MIRA 12:3)

1. Iz otdeleniya neotlozhnoy travmatologii (zav. - kand.med.nauk  
S.Ye. Kashkarov) i bol'nitsy Frunzenskogo rayona g. Leningrada.  
(RADIUS, fract.  
causing pain synd., anat. causes (Rus))

**TYSHCHUK, Ye. A.**

Blood vessel and nerve injuries in fractures of the radius  
at a typical site. Ortop. travm. i protez. no. 2:11-13 Mr-Ap  
'55. (MLRA 8:10)

1. Iz kafedry operativnoy khirurgii i topograficheskoy anatomii  
(zav.-prof. A.P. Nadein) Gosudarstvennogo instituta usovershen-  
stovaniya vrachey im. S.M. Kirova i khirurgicheskoto otdeleniya  
(zav.-prof. A.P. Nadein) bol'nitsy Frunzenskogo rayona g. Lenin-  
grada (glavnyy vrach-L.A. Talyzina)

(RADIUS, fractures,  
blood vessels & nerves inj.)  
(FRACTURES,  
radius, inj. to blood vessels & nerves)  
(BLOOD VESSELS, wounds and injuries  
in fract. of radius)  
(NERVES, RADIAL, wounds and injuries  
in fract. of radius)  
(WOUNDS AND INJURIES,  
blood vessels & radial nerves in fract. of radius)

GRINSHTEYN, I.M.; TYSHETSKAYA, O.V.

Special features of the stripping of hydrogen chloride from thickened hydrolyzates by live steam. Sbor.trud. NIIGS 11:23-30 '63.

Stripping of hydrogen chloride from hydrochloric hydrolyzates at atmospheric pressure. Ibid.:31-40 (MIRA 16:12)

GRINSHTEYN, I.M.; TYSHETSKAYA, O.V.; BABINA, O.M.

Rotary absorber for producing concentrated hydrochloric acid. *Gidroliz.i lesokhim.prom. 13 no.6:12-13 '60.*  
(MIRA 13:9)

1. Nauchno-issledovatel'skiy institut gidroliznoy i sul'fitno-spirovoy promyshlennosti.  
(Kansk--Hydrochloric acid) (Absorption)

TYSHETSKIY, V. I.

Morbidity of the population in Vinnitsa Province from malignant tumors. Vop. onk. 8 no.7:99-104 '62. (MIRA 15:7)

1. Iz kafedry organizatsii zdravookhraneniya i istorii meditsiny (zav. - prof. L. G. Lekarev) Vinnitskogo meditsinskogo instituta im. N. I. Pirogova (dir. - dots. S. I. Korkhov)

(VINNITSA PROVINCE--CANCER)

PROCESS AND PROPERTIES INDEX

21

**Pyrolysis of wood material for portable gas generators**  
 A. K. Slavyanskii, V. M. Tyshetskii and P. A. Reanov.  
*Lesokhim. Prom.* 1939, No. 11, 19-23; *Khim. Referat. Zhur.* 1940, No. 3, 111.--Wooden chips or blocks were subjected to pyrolysis in kerosene, to obtain brown blocks with recovery of the wood chemicals. The process was carried out at 250-60°. The yields on the dry wt. of wood were: brown blocks 60-70, acids approx. 5.5, alc. approx. 0.8 and gases approx. 0%. Losses of kerosene were from 0.2 to 1.5% of the wt. of kerosene taken for the expts. (18-21 kg. of kerosene per 1 kg. of wood) W. R. H.

ASTM-BLA METALLURGICAL LITERATURE CLASSIFICATION

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
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99	99	99	99
100	100	100	100



TYSHETSKIY, V.I.

Method of special examinations of malignant neoplasms.  
Zhur. eksp. i klin. med. 3 no.3:99-103 '63. (MIRA 17:1)

1. Institut onkologii AMN SSSR i kafedra organizatsii  
zdravookhraneniya Vinnitskogo meditsinskogo instituta.

KAUFMAN, B.D.; LIBERMAN, I.S.; TYSHETSKIY, V.I.

Some materials dealing with the distribution of esophageal cancer in Gur'yev Province, Kazakh S.S.R. (according to materials of the 9th Expedition of the Institute of Oncology of the Academy of Medical Sciences of the U.S.S.R. Vop. onk. 11 no.12:78-85 '65. (MIRA 19:1)

1. Iz nauchno-organizatsionnogo otdela Instituta onkologii AMN SSSR (ispolnyayushchiy obyazannosti zaveduyushchego otdelom - kand. med. nauk B.D. Kaufman, dir. instituta - deystvitel'nyy chlen AMN SSSR zasluzhennyy deyatel' nauki RSFSR prof. A.I. Serebrov).

TYSHEV, A.A.

Device for determining the coefficient of rocks under pressure.  
Izv.Sib.otd.AN SSSR no.11:91-93 '59. (MIRA 13:4)

1. Severo-Vostochnoye otdeleniye Instituta merzlotovedeniya  
im. V.A.Obrucheva AN SSSR.  
(Rocks)

TYSHEV, YU A.

Teplo-i massoobmen v merzlykh tolshchakh zemnoy kory (Heat and Mass Transfer in the Frozen Strata of the Earth's Crust) Moscow, Izd-vo AN BSSR, 1963 213p.  
Research by the staff of the Heat-and Mass-Transfer Division of the Institute of Permafrost Study, Siberian Branch AS USSR.

- Ivanov, N.S. Measurement of Thermal Currents With Spherical and Cylindrical Probes in a Stationary Regime 185
- Ivanov, N.S. Nonstationary Methods for the Determination of Thermal Currents With Spherical and Cylindrical Probes 191
- Mandarov, A.A. Laboratory Equipment for the Study of Heat- and Mass-Transfer in Soils and in Rocks 198
- Kutasov, I.M. Determination of the Overheating Temperature of Thermistors 203
- Ivanov, N.S., Yu.N. Annenkov, and Yu.A. Tyshev. A Device for the Automatic Switchover of the Measuring Range in (Electric) Bridge Systems 207

Card 6/7

35  
22  
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filter and glass plastic, respectively. For deviation of calculation  
and the formula can be used for

TYSHKEVICH, R.

Irreducible nilpotent groups of matrices of level  $P^2$ .  
Vestsi AN BSSR, Ser. fiz.-tekh. nav. no. 4:34-41 '59.  
(MIRA 13:4)

(Groups, Theory of)

SUPRUNENKO, D.A.; TYSHKEVICH, R.I.

Reducible nilpotent and locally nilpotent linear groups.  
Trudy Inst.fiz,i mat.AN BSSR no.3:221-233 '59.  
(MIRA 13:4)

(Groups, Theory of)



TYSZKIEWICZ, Magdalena

Several cases of Huntington's chorea, chronic schizophrenia and other mental disorders within the same family. Neur. & polska 10 no.1:121-124 Ja-F '60.

1. Z Poradni Zdrowia Psychicznego w Gdyni, Kierownik: lek. M. Tuszkeiwicz.

(SCHIZOPHRENIA genetics)

(CHOREA HEREDITARY case reports)

(MENTAL DISORDERS genetics)

GOL'BINDER, A.I.; SVETLOVA, L.M.; TYSHEVICH, V.F.

Some reasons for detonation damping in boreholes. Varyv. delo  
no.52/9:155-168 '63. (MIRA 17:12)

1. Moskovskiy ordena Lenina khimiko-tekhnologicheskii institut  
imeni D.I. Mendeleyeva.

TYSHETSKIY, V.I.

LEKAREV, L.G., professor; RYUKHOV, F.S.; TYSHETSKIY, V.I.

Hospital requirements of the population of Vinnitsa and methods for  
its estimation. Vrach.delo no.6:635-639 Je '57. (MLRA 10:8)

1. Kafedra organizatsii zdravookhraneniya i istorii meditsiny (zav. -  
prof. L.G.Lekarev) Vinnitskogo meditsinskogo instituta  
(VINNITSA--HOSPITALS)

TYSHKEVICH, N.I.

Structure of the Central Office of Technological Information  
of the National Economic Council. NTI no.5:3-7 '64.

(MIRA 17:10)

89533

S/044/60/000/008/005/035  
C111/C222

/6.2000

**AUTHORS:** Suprunenko, D.A., and Tyshkevich, R.I.  
**TITLE:** Reducible nilpotent and locally nilpotent linear groups  
**PERIODICAL:** Referativnyy zhurnal. Matematika, no.8, 1960, 29,  
 abstract no.8620. Tr. In-ta fiz. i matem. AN BSSR, 1959,  
 no.3, 221-233

**TEXT:** The authors describe a simple method for the reduction of the investigation of arbitrary nilpotent linear groups over the algebraically closed field  $P$  to the investigation of irreducible nilpotent groups. Basing on this construction and on earlier results the authors prove the following facts. 1) All maximal nilpotent subgroups of  $GL(n, P)$  of the class  $1 \geq n-1$  decompose into an only finite number of classes of conjugate subgroups. 2) The number of non-conjugated maximal locally nilpotent subgroups of  $GL(n, P)$  is smaller than or equal to the number of representations of the number  $n$  in the form:  $n = k_1 \frac{n_1}{k_1} + k_2 \frac{n_2}{k_2} + \dots + k_s \frac{n_s}{k_s}$ ,

where  $n_i/k_i$  are not divisible by the characteristic of the field  $P$ .  
 [Abstracter's note: The above text is a full translation of the original Soviet abstract.]

Card 1/1

SUPRUNENKO, D.A.; TYSHKEVICH, R.I.

Reducible locally nilpotent linear groups. Dokl. AN BSSR 4 no.4:  
137-139 Ap '60. (MIRA 13:10)

1. Belorusskiy gosudarstvennyy universitet im. V.I.Lenina.  
(Groups, Theory of)

KOZEL, P.T.; TYSHKEVICH, R.I.

Two theorems on solvable groups. *Izv.vys.ucheb.zav.; mat.*  
no.6:45-50 '62. (MIRA 15:12)

1. Belorusskiy gosudarstvennyy universitet imeni V.I.Lenina.  
(Groups, Theory of)

KHANOVICH, Miron Grigor'yevich, kand.tekhn.nauk; ALYSHITS, I.Ya., kand.  
tekhn.nauk, retsenzent; TODER, I.A., inzh., retsenzent; KARA-  
TYSHKIN, S.G., prof., doktor tekhn.nauk, red.; VASIL'YEVA, Y.P.,  
red.izd-va; FRUMKIN, P.S., tekhn.red.

[Liquid friction and combined supports] Opory zhidkostnogo trenia  
i kombinirovannye. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.  
lit-ry, 1960. 271 p.

(MIRA 13:7)

(Bearings (Machinery))



SEREBRENNIKOV, V.V.; TYSHINSKAYA, I.I.; CHUPAKHINA, R.A.

Formation of complex compounds by rare earths. Trudy TGU  
145:161-162 '57. (MIRA 12:3)

1. Kafedra neorganicheskoy khimii Tomskogo gosudarstvennogo uni-  
versiteta imeni V.V. Kuybysheva.  
(Rare earth compounds)

TYSHKEVICH, A.A., inzhener; CHERNYAK, I., redaktor; TRUKHANOVA, A., tekhnicheskii redaktor

[Innovations in the technology of producing lime from chalk] Novoe v tekhnologii proizvodstva izvesti iz melov; iz opyta raboty novatorov izvestkovykh zavodov raionnoi promyshlennosti BSSR. Minsk, Gos. izd-vo BSSR, 1955. 62 p.

(Lime)

(MIRA 9:1)

TYSHKEVICH, G.I.

USSR/Forestry - Dendrology.

K.

Abs Jour : Ref Zhur - Biol., No 21, 1958, 95022

Author : Tyshkevich, G.I.

Inst :

Title : Physical-Mechanical Properties of Spruce Wood in the Carpathians and Their Change Depending on the Type of Branching.

Orig Pub : Izv. vyssh. uchebn. zavodeni, Lesn. zh., 1958, No 1, 68-71.

Abstract : No abstract.

Card 1/1

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USSR / Forestry. Forest Economy

K-3

Abs Jour: Ref Zhur-Biol., No 13, 1958, 58385

tree, and in an area of the type B2-C2 occupied by pure spruce groves. It was determined that it is necessary to take into consideration the subsequent reforestation of the spruce, when conducting massive fellings in spruce groves on deep melkozem (fine) soils (60-70 centimeters thick) and on flat northern slopes, the most widespread type C3 in the Carpathians. Combined reforestation is recommended where the width of the clearing is over 150 meters. Natural reforestation should be conducted near the forest borders, and artificial reforestation is recommended over the new felling, without soil preparation. In the type B2-C2, where the thin layer of organic soil substance is destroyed during lumbering and where only stone scatterings remain, natural reforesta-

Card 2/3

USSR / Forestry. Forest Economy

K-3

Abs Jour: Ref Zhur-Biol., No 13, 1958, 58385

tion is impossible and cultivation is indispen-  
sable. --V. V. Protopopov

Card 3/3

TYSHKEVICH, G.L.

Soils of Carpathian spruce forests [with summary in English].  
Pochvovedenie no.2:26-29 F '58. (MIRA 11:3)

1. Lesotekhnicheskii institut, L'vov.  
(Carpathian Mountains--Forest soils)

TYSHKEVICH, Galina Leonidovna; MELEKHOV, I.S., akademik, otv. red.;  
ENDEL'MAN, G.N., red. izd-va; VOLKOVA, V.G., tekhn. red.

[Spruce forests of the Soviet Carpathians] Elovye lesa Sovetskikh  
Karpát. Moskva, Izd-vo Akad.nauk SSSR, 1962. 172 p.  
(MIRA 15:10)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni  
V.I.Lenina (for Melekhov).  
(Carpathian Mountain region--Spruce)

TYSHKEVICH N. G.

Q

COUNTRY : USSR  
CATEGORY : Farm Animals. Cattle

ABS. JOUR. : RZBiol., No. 13, 1958, No. 59499

AUTHOR : Gordiyenko, M. F.; Ros', I. F.; Tyshkevich,\*  
INST. : Kamenets-Podol'skiy Agricultural Institute  
TITLE : Pinzgau Cattle and Prospects of Breeding  
Work with Them

ORIG. PUB. : Sots. tvarinnitstvo, No 10, 41-44

ABSTRACT : In 1956, the Kamenets-Podol'skiy Agricultural  
Institute carried out investigation of 1,000  
heads of Pinzgau cattle and its crosses in  
six kolkhozes of Chernovitskaya Oblast; of  
these, 33% were purebreds and 61% were cros-  
ses with Simmenthals. The live weight of  
purebred cows averaged 430 kg. and that of

\* N. G.

CARD: 1/2

Q - 17



TYSHKEVICH, N.I., kandidat tekhnicheskikh nauk.

Length of receiving and departure tracks for "group" trains. Zhel.  
der. transp. 39 no.3:62-64 Mr '57. (MLRA 10:4)

(Railroads--Making up trains)

TYSHKEVICH, N. I.

The experience of dispatche Orlov Moskva, Gos. transp. zhel-dor. izd-vo, 1949.  
42 p. (50-19901)

TF563.T97

1. Railroads - Penzenskaya oblast', Russia - Training dispatching

TYSHKEVICH, N. I.

Opyt dispetchera Orlova. [Orlov's train-dispatching experience]. Moskva, Gos.  
transp. zhel-dor. izd-vo, 1949. 42 p. port., diagrs.  
DLC: TF563.T97

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress  
Reference Department, Washington, 1952, Unclassified.

TYSHKEVICH, N.I.

Reference and information collections of All-Union and branch  
information centers. NTI no.9:3-5 '65. (MIRA 19:1)

Р. И. ТИШКЕВИЧ, Минск  
TYSHKEVICH, R.I. (Minsk).

Hilpotent linear groups. Mat. sbor. 42 no.4:441-444 Ag '57.  
(Groups, Theory of) (MIRA 10:12)

SUPRUNENKO, D.A.; TYSHKEVICH, R.I.

Reducible locally nilpotent linear groups. *Izv. AN SSSR. Ser.*  
mat. 24 no. 6:787-806 N-D '60. (MIRA 14:1)

1. Predstavleno akademikom A.I. Mal'tsevym.  
(Groups, Theory of)

*Card*  
TYSHKEVICH, R.I.: Master Phys-Math Sci (diss) -- "Nul-potential linear groups". Minsk, 1958. 4 pp (Belorussian State U im V.I. Lenin, Chair of Algebra), 150 copies (KL, No 1, 1959, 113)

SUPRUNENKO, D.A.; TYSHKEVICH, R.I.

Dynamic representations and one class of determinate machines.  
Kibernetika no.2:9-17 Mr-Apr '65. (MIRA 18:5)



*TYSHKEVICH R.I.*

**AUTHOR:** TYSHKEVICH R.I. (Minsk) 39-4-2/9

**TITLE:** On Nilpotent Linear Groups. (O nil-potentnykh lineynykh gruppakh)

**PERIODICAL:** Mat.Sbornik, 1957, Vol.42, Nr.4, pp.441-444 (USSR)

**ABSTRACT:** Let  $P$  be an algebraically closed field;  $M$  - the multiplicative group of  $P$ ;  $GL(n, P)$  - complete linear group of  $n$ -th degree over  $P$ ;  $A : B$  - index of the subgroup  $B$  in the group  $A$ .  
**Theorem:** Let  $G$  be an irreducible nilpotent subgroup of  $GL(n, P)$  being maximal among all subgroups of the class  $l > 1$ . Let  $Z_1 = M \subset Z_2 \subset \dots \subset Z_{l-1} \subset G$  be its upper central series.

1. if  $Z_1$  is irreducible, then  $Z_1 = G$ ,
2. if  $l > 2$ , then  $Z_2$  is commutative,
3. if  $Z_2 : Z_1 = n$ , then  $Z_{l-1}$  is abelian.

Three Soviet references are quoted.

**SUBMITTED:** May 17, 1956

**AVAILABLE:** Library of Congress

Card 1/1

SUPRUNENKO, D.A.; TYSHKEVICH, R.I.

Dynamic mapping. Dokl. AN BSSR 7 no.5:289-292 My '63.  
(MIRA 16:12)

1. Belorusskiy gosudarstvennyy universitet imeni Lenina.



**"APPROVED FOR RELEASE: 08/31/2001**

**CIA-RDP86-00513R001757720011-0**

**APPROVED FOR RELEASE: 08/31/2001**

**CIA-RDP86-00513R001757720011-0"**

SOV/124-57-5-5225

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 5, p 17 (USSR)

AUTHOR: Tyshkevich, V. A.

TITLE: The Method of Affinity Regions of Mechanisms and Its Application to the Study of the Characteristics of Hinged Four-bar Linkages (Metod oblastey rodstva mekhanizmov i yego primeneniye pri izuchenii svoystv sharnirnykh chetyrekhzvennikov)

PERIODICAL: Tr. Seminara po teorii mashin i mekhanizmov In-ta mashinoved. AN SSSR, 1956, Vol 16, Nr 62, pp 11-25

ABSTRACT: A mechanism is presented in the form of a representative point in an n-dimensional coordinate system along the axes of which the relative dimensions of the links are plotted on the chart. The geometrical region of the existence of mechanisms with identical kinematic schemes is next established as follows: The points of a mechanism which possess similar kinematic properties are plotted on the chart along well-defined lines, surfaces, and volumes designated as affinity regions. The method suggested in the paper is suitable for the design of lower-pair mechanisms which is to fulfill a prescribed law of motion of the driven link.

V. N. Geminov

Card 1/1

TYSHKEVICH, V.A., kand.tekhn.nauk.

Homographic method used in the kinematic analysis of four-link  
mechanisms. Trudy OMI no.1:9-20 '56. (MIRA 11:2)  
(Machinery, Kinematics of--Graphic methods)

TYSHKEVICH, V.A.

"Analogy domain" of mechanisms used as a technique for studying  
the properties of hinged four-bar mechanisms. Trudy Sem. po teor.  
mash. 16 no.62:11-25 '56. (MLRA 9:10)

(Links and link-motion) (Mechanics, Analytic)

TYSHKEVICH, V. A.

"A Study of the Properties of a Four-Throw Crankshaft and  
Directions for Compiling a Manual Listing Their Characteristics."  
Cand Tech Sci, All Union Correspondence Polytechnic Inst, Moscow,  
1955. (KL, No 8, Feb 55)

SO: Sum. No. 631, 26 Aug 55--Survey of Scientific and Technical  
Dissertations Defended at USSR Higher Educational Institutions  
(14)



GOL'BINER, A.I.; TYSHEVICH, V.F.

Channeling effect in the detonation of explosives. Dokl. AN  
SSSR 156 no. 4:905-908 Je '64. (MIRA 17:6)

1. Moskovskiy khimiko-tehnologicheskii institut im. D.I.  
Mendeleyeva. Predstavleno akademikom Ya.B.Zel'dovichem.

ACCESSION NR: AP4041158

S/0020/64/156/004/0905/0908

AUTHOR: Gol'binder, A. I.; Ty\*shevich, V. F.

TITLE: Channel effect in the detonation of explosives

SOURCE: AN SSSR. Doklady\*, v. 156, no. 4, 1965, 905-908

TOPIC TAGS: detonation, explosive, channel effect, shock wave, luminosity, shock wave propagation, trotyl, hexogen, lead nitrate

ABSTRACT: High-speed photography (500,000—1,000,000 frames per sec) and x-rays were used to study the channel effect in the detonation of explosives. The experiments were carried out in organic glass shells using fine ground trotyl and hexogen charges with densities of 0.5 g/cc and fine ground mixtures of trotyl and lead nitrate (10—20%) with densities of 0.6—0.7 g/cc. Analysis of the experimental data and published data showed that in all cases the boundary of the expanding detonation products is sharply delineated and never overtakes the detonation front. The luminosity observed in the channel is not connected with the motion of the detonation products. Special experiments showed that the luminosity depends on the type of gas in the channel. Maximum luminosity

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ACCESSION NR: AP4041158

was observed when the channel was filled with argon; minimum luminosity was observed with carbon dioxide. The detonation products generate a shock wave (in the channel) which overtakes the detonation front and has a compacting effect on the charge. The detonation ceases when the shock wave overtakes the detonation front at a distance permitting a prolonged action of the shock wave on the charge. Equations are given for calculating the thickness of the layer of the charge compacted by the shock wave and the compacting time. The calculated data on the thickness of the compacted and uncompact layers agree closely with that obtained by measuring the layers by x-ray pictures. Depending on the sensitivity of explosives, the shock wave may also initiate detonation. The effect of baffles in the charge and the effect of compression of gas inclusions on the attenuation of detonation are also discussed. Orig. art. has: 3 figures.

ASSOCIATION: Moskovskiy khimiko-tekhnologicheskii institut im. D. I. Mendeleeva (Moscow Institute of Chemical Technology)

SUBMITTED: 08Feb64

ATD PRESS: 3042

ENCL: 00

SUB CODE: WA  
Card 2/2

NO REF SOV: 005

OTHER: 003

TYSHKEVICH, Yu. I., inzh.; ZUSSER, A.P., inzh.

Heating and drying unfinished buildings. *Bul.tekh.inform.* 5  
no.1:25-26 Ja '59. (MIRA 12:4)  
(Building--Cold weather conditions) (Drying apparatus)

TYSHKEVICH, Yu.I.

Laying and plasterin brick walls at the same time. Biul.tekh.inform.  
3 no.7:4-8 J1 '57. (MIRA 10:10)

1. Glavnyy inzhener tresta No.19.  
(Plastering) (Bricklaying)

TYSHKO, A.G.

Study of serum protein fractions obtained after a simultaneous  
introduction of a mumps and smallpox vaccine. Vrach. delo no.1:  
100-102 Ja'64 (MIRA 17:3)

1. Kafedra mikrobiologii ( zav. - prof. S.S. Dyachenko) Kiyevsko-  
go meditsinskogo instituta.

Tyshko, A.I.

809/5170

PHASE I BOOK EXPLANATION

Division 888. *Osnovnye voprosy planovogo komslyta*  
 Armatskiy i yubotomoyly; sbornik nauchnykh trudov, 1979, 1.  
 (Automation and Instrument Making; Collected Scientific Works, No. 1)  
 Kiev, Odeskizdat SSSR, 1979. 107 p. 5,000 copies printed.

Ed.: V. Boshkov, Tech. Ed.: K. Ousarov; Editorial Board: P.M. Melnik  
 (Chief Ed.), M.F. Zhurav, O.S. Kryzhanov, I.A. Orlov, (Assoc. Ed.),  
 L.A. Shapovalov, and M.V. Yarin.

PHASE I: This collection of articles is intended for scientific and technical  
 workers and for students of schools of higher education specializing in  
 automation, telemechanics, and computing.

CONTENTS: The collection contains papers on the automation of metallurgical,  
 chemical and power engineering and on the development of new instruments,  
 telemechanical units, and program control systems for turret lathes.  
 A bibliography on automatic analysis of solutions containing EC in  
 12 Soviet, 34 German, 5 German, 4 French and 1 Polish is included. No person-  
 alities are mentioned.

AUTOMATION OF INDUSTRIAL PROCESSES

- 9 Korobko, N.I., A.G. Sirel'shenko, V.M. Korobovskiy, V.I. Kostyuk, I.I. Trubko, V.M. Artyukhin. Automation System for Open-Search Thermal Processes
- 14 Korobko, M.I., V.I. Kostyuk. Open-Search Control System
- 17 Boshkov, V.A., B.G. Mikheyev. Automatic Inspection and Control of Heat Distribution in Open-Search Turbines
- 22 Boshkov, V.A. New Indirect Method for the Automatic Analysis of Multicomponent Solutions
- 29 Boshkov, V.A., Yu.I. Kobov, V.Ye. Givile, V.M. Afanas'yev. Program Control System of Turret Lathes LMI P
- 35 Spina, O.A., and O.Y. Puzitskiy. Shift Pickup Called "Magnetic Stop"

AUTOMATIC EQUIPMENT

- 30 Inasov, V.I. Comparison of Methods of Selecting Telemechanic Frequency Codes
- 34 Shira, B.K. and V.I. Tyup. Circuitry for Synchronous Reception of Telemechanic Frequency Codes (Synchronous Generator-Filter)
- 39 Sigler, J.M., V.P. Korobovskiy. Calculator "Tren-2" for the Economic Distribution of Active Load in Power Systems
- 55 Stukov, V.M. and Pol'yakov, K.Yu. Basis for Selecting Criterion With Regard to the Necessity of Registering Net Losses During Distribution of Load Among Electric Power Stations.
- 61 Pechuk, V.I. and V.A. Lepiy. Electronic Level Controller

AUTOMATIC CONTROL

- 63 Vagner, I.V., A.I. Korosel'skiy, I.P. Titarenko. Concentration Meter for Potassium Salt Solutions
- 69 Kuvshinov, V.S., I.H. Koshovits, Yu.M. Al'tovskiy. Highly Sensitive Determination Photodiode
- 71 Kuvshinov, V.A. and B.I. Vasil'yev. Cold-Welded Germanium Pulse Diode
- 75 Shalunov, G.D. New Principles of Control Using High-Speed Nonlinear Controllers for Industrial Processes with Considerable Lag
- 80 Gribchuk, V.P. and Yu.I. Samoylov. Approximate Methods for Selecting Optimum Adjustments of Discontinuous Control Systems
- 87 Ladiyer, N.E., and A.V. Gorenshik. Selection of Control Parameters for a Mercury-Pool Electrolytic Bath

KOROBKO, M.I.; STREL'CHENKO, A.G.; KOROTKEVICH, V.N.; KOZLYUK, V.I.;  
TYSHKO, A.I.; ARTYNSKIY, V.M.

Automatic control of thermal processes in an open-hearth furnace.  
Avtom.1 prib. no.1:9-14 '59. (MIRA 13:10)  
(Electronic control) (Open-hearth furnaces)



SERDYUK, S.M., inzh.; TYSHKO, A.I., inzh.

Using photorelays in open-hearth process. Mekh.i avtom.proizv.  
17 no.7:23 J1 '63. (MIRA 16:8)  
(Open-hearth furnaces) (Photoelectric measurements)

KOZLOV, V.S., kand. tekhn. nauk; TISHKO, A.I.; BUZNETSKIY, L.A.

Effect of regulating the heat conditions of a holding furnace  
on fuel consumption and the quality of ingot heating. Mat. i  
gornourud. prom. no.6:29-32 N.D '65.

(MIRA 18:12)

KRIVOSHEY, D.; DRAGUNOV, V.; TYSHKO, V.; KORENYAK, A., starishiy inzh. po tekhnike bezopasnosti; MOLCHANOV, A., rabochiy syr'yevogo tsekha; POVOLOTSKIY, B.; LOBACHEV, L.; SUKHANOV, A.; ZEMLYACHENKO, I.; KOZLOV, A.; POPENKO, F., inzh. (Moskva); SHAPIRO, A.

Editor's mail. Okhr.truda i sots.strakh. 5 no.8:32-33 Ag '62.

(MIRA 15:7)

1. Glavnyy inzh. shakhty "TSentral'naya", Krivoy Rog (for Kirvoshey).
2. Pomoshchnik glavnogo inzh. po tekhnike bezopasnosti shakhty "TSentral'naya", Krivoy Rog (for Dragunov).
3. Nachal'nik ventilyatsii shakhty "TSentral'naya", Krivoy Rog (for Tyshko).
4. Tomskiy podshipnikovyy zavod 5-GPZ (for Korenyak).
5. Kabluchnaya fabrika, g. Nerekhta (for Molchanov).
6. Predsedatel' zavodskogo komiteta Moskovskogo zavoda zhelezobetonnykh izdeliy No.7 (for Lobachev).
7. Transportnaya kontora tresta "Sterlitamakstroy", g. Sterlitamak (for Sukhanov).
8. Predsedatel' mestnogo komiteta gorodskoy tipografii, g. Michurinsk (for Zemlyachenko).
9. Predsedatel' komissii okhrany truda gorodskogo komiteta professional'nogo soyuza meditsinskikh rabotnikov, g. Yevpatoriya (for Kozlov).
10. Vneshtatnyy tekhnicheskyy inspektor Voronezhskogo oblastnogo soveta professional'nykh soyuzov (for Shapiro).

(Industrial hygiene)

TYSHKO, V.I.

Once more on dust control in mines of the Krivoi Rog  
Basin. Bezop.truda v prom. 4 no.8:31 Ag '60.  
(MIRA 13:8)

1. Nachal'nik ventilyatsii Shakhty "TSentral'naya"  
rudoupravleniya "Ingulets" tresta Dzerzhinskkruda.  
(Krivoi Rog Basin--Mine dusts--Safety measures)

TYSHKO, V.I.; DRAGUNOV, V.P.

Ventilation of stopes at the Tsentral'naiia mine of the  
Ingulets Mining Administration. Met. i gornorud. prom.  
no.2:55-56 Mr-Ap '65. (MIRA 18:5)

DUNAYEV, A.N.; TYSHKOVSKIY, S.M.

Modernization of an amplitude pickup. Stan.i instr. 33 no.7:40  
Jl '62. (MIRA 15:7)

(Vibration—Measurement)

SOV/3-58-12-23/43

AUTHOR: Tyshkovskiy, V.M., Candidate of Historical Sciences

TITLE: The Scientific-Methodical Council at the University (Nauchno-metodicheskiy sovet v universitete)

PERIODICAL: Vestnik vysshey shkoly, 1958, Nr 12, pp 67 - 70 (USSR)

ABSTRACT: In 1956, the Council of the Kiyevskiy universitet (Kiyev University) established a Scientific-Methodical Council at the university. It is the Council's task "to examine and work out the organizational and teaching-methodical problems on training pedagogic and scientific personnel". For this purpose the council studies and generalizes the experiences gained in schooling, and proposes measures for its improvement. Among its 39 members are 8 professors. The Council has 5 sections. Last year the Section on General Methodical Problems arranged its first scientific methodical conference. The first plenary meeting was attended by 357 persons while 500 persons participated in the work of the sections. The University Rector and Member of the AS UkrSSR, I.T. Shvets, delivered a lecture on increasing the quality of the introductory lecture. The Scientific-Methodical Council solved

Card 1/2

SOV/3-58-12-23/43

The Scientific-Methodical Council at the University

a number of organizational and scientific-methodical problems, and is in close touch with all the universities of the Ukraine and other republics. There are 2 Soviet references.

ASSOCIATION: Kiyevskiy gosudarstvennyy universitet imeni T.G. Shevchenko  
(Kiyev State University imeni T.G. Shevchenko)

Card 2/2



TURKUMAN, D.M.; TYSHKUL, F.P.

Work education on a school collective farm. Politekh.obuch.  
no.6:33-37 Je '59. (MIRA 12:12)

1. Direktor sredney shkoly, selo Kerzhautsy, Lipkanskogo rayona  
Moldavskoy SSR (for Turkuman). 2. Predsedatel' kolkhoza, selo  
Kerzhautsy, Lipkanskogo rayona, Moldavskoy SSR (for Tyshkul).  
(Kerzhautsy--Student activities)  
(Agriculture--Study and teaching)

TYSHLER, I., sveduyushchiy; YALANSKIY, A., inzhener.

Regulation of working capital norms for tree nurseries. Zhil.-khoz. khoz.  
3 no.5:20 Vy '53. (MLRA 6:7)

1. Planovo-ekonomicheskiy sektor Stavropol'skogo kraykomkhoza (for Tyshler).
2. Blagoustroyatvo Stavropol'skogo kraykomkhoza.  
(Nurseries (Horticulture))

TYSHLYAR, I.S.; AKHILINCHEVA, G.V.; MAKOVETSKIY, O.Ye.; KLYUSHNIKOV, V.I.

Gas equipment of a kiln for ceramic tiles. Gaz. prom. 10  
no.7:34-35 '65. (MIPA 18:8)

TYSHNYUK, Ya., inzhener; YANSA, B.V., inzhener

Efficiency promoters in machine building plants strive to satisfy  
the needs of agriculture. Sel'khoz mashina no.10:28-29 0'55.  
(Machine shop practice) (MIRA 8:12)

KLYUCHKO, P.V., inzh.; ROZIN, V.A., kand. tekhn. nauk; TYSHOVA, Ye.N., inzh.

Land improvement in Poland. Gidr. i mel. 17 no.7:49-55  
Jl '65. (MIRA 18:12)

1. Kaliningradskoye oblastnoye upravleniye vodnogo khozyaystva  
(for Klyuchko). 2. Severnyy nauchno-issledovat'skiy institut  
gidrotekhniki i melioratsii (for Rozin). 3. Respublikanskiy  
gosudarstvennyy institut po proyektirovaniyu vodokhozyaystvennogo  
i meliorativnogo stroitel'stva RSFSR (for Tyshova).

TYSKA, Maria

An international exhibition of books and maps concerning problems of the quarternary. Przegl geolog 10 no.2F:87-88 '62

TYSKA (11)

Warsaw, Pracownicy Geologiczni, Vol 10, No 2 (1971), February 1962.

1. Plan of Geological Works for 1962. By XIERHUSKA-DZIEDZICZAK of the Central Geologic Office, Centralny Urząd Geologiczny; pp 65-67.
2. Geological Exploration of Deposits for Sources of Construction Ceramics. By Stanisław WAWRZYNIAK of the Chair of Geology and Service Geology, Katolicka Szkoła Wyższa (University of Maria Curie-Skłodowska) of the Warsaw University (University of Maria Curie-Skłodowska); pp 67-72. (English summary).
3. Prospects of Kaolin Occurrences in the Stralin Krasnif Region. By Leon RYBICKI of the Geological Institute (Institute of Geology); pp 72-75. (English summary).
4. Deposits of Clay for Construction Ceramics in the Województwo Lubelskie. By Dobrosław KOZIOŁA, Zdzisław KULIG, and Michał KUDOJ; pp 75-78. (English summary).
5. Prospects for the Exploitation of Quarzites in the Lubelskie Region. By Józef WILKOWSKI of the Geological Institute; pp 79-83. (English summary).
6. Sixth Congress of ISQUA. By Ryszard SZKŁO of the Geological Institute; pp 84-87.
7. International Acquisition of Books and Maps (ISQUA). By Maria TYSKA; pp 87-89.
8. Some Problems of Mineralogical Phase Analysis of Ores. By Włodzisław MACHAŁA of the Institute of Mining and Metallurgy (Lodz Mining University); pp 89-94. (English summary).
9. Scientific Activities in the Lodz-Silesia Syncline in the Last 10 Years. By Włodzisław MACHAŁA of the Institute of Mining and Metallurgy (Lodz Mining University); pp 94-96. (English summary).
10. Use of Patterns in Following Geological-Engineering Processes. By Antoni KUDRYSKI of the Main Institute of Mining (Gleny Institute); pp 97-101. (English summary).

S/250/62/006/005/007/007  
1001/1002

**AUTHORS:** Yerofeyev, B. V., Naumova, S. F. and Tyskalo, L. G.

**TITLE:** Formation of benzene in themic polymerization of cyclohexadiene-1,3

**PERIODICAL:** Akademiya nauk Belaruskay SSR. Doklady, v. 6, no. 5, 1962, 313-315

**TEXT:** This is a continuation of a previous work on polymerization of cyclohexadiene-1,3 at temperatures 160°-200°C (B. V. Yerofeyev, S. F. Naumova, L. G. Tyskalo, Sb. nauchnykh trudov IFOKh, no. 9, 1961). In the present work the spectrophotometric investigation was applied to monomers obtained in experiments with different degrees of polymerization at various temperatures. It was established, that in the process of the chemical changes of cyclohexadiene-1,3 dimerization and polymerization to higher degrees are accompanied by a disproportionation. A formula is given for calculation of the amount of benzene in the monomeric products. There are 2 figures and 1 table. ✓

**ASSOCIATION:** Institut fiziko-organicheskoy khimii AN BSSR (Institute of Physical-Organic Chemistry AS BSSR)

**SUBMITTED:** February 28, 1962

Card 1/1



TYSKI, S.

Outlines of the history of geologic research in northwestern Poland. p. 544.  
(PRZEGLAD GEOLOGICZNY. Vol. 4, no. 12, Dec. 1956, Warszawa, Poland)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 12, Dec. 1957.  
Uncl.

TYSKI, Stanislaw

New data from geological borings in Bartoszyce and Goldap. Przegł  
geol 10 no. 4/5:177-181. Ap-My '62

1. Instytut Geologiczny, Warszawa.

L 07086-67 EWT(d)/FSS-2/EWT(1)

ACC NR: AP6018991

SOURCE CODE: UR/0109/66/011/006/0971/0982

AUTHOR: Tyslyatskiy, G. S.

63  
60  
B

ORG: none

TITLE: Sequential <sup>75</sup>detection in a system of many independent receiving channels with noise

SOURCE: Radiotekhnika i elektronika, v. 11, no. 6, 1966, 971-982

TOPIC TAGS: signal detection, sequential detection, signal noise separation, *COMMUNICATION CHANNEL, MULTICHANNEL COMMUNICATION*

ABSTRACT: The problem of sequential detection (C. Helstrom, IRE Trans., IT-8, 1962, 43) is considered. The optimum-detection procedure consists of two parts: (1) Setting up the algorithm for processing sampling data and (2) Establishing thresholds and the law of their variation. The theoretical detection procedure includes calculation of a likelihood ratio, at each sampling

Card 1/2

UDC: 621.391.16:621.391.82

L 07086-67

ACC NR: AF5018991

3

step, and comparison of this ratio with two constant thresholds. Approximate formulas for the average number of steps show that the energy expenditure in the multichannel system is logarithmic. This inference was corroborated by the results of numerical calculations on digital computers. These results are in good agreement with those obtained by M. V. Marcus and P. Swerling (IRE Trans., IT-8, 1962, 3). As the number of channels increases, the relative spread of the number of steps (the ratio of the standard deviation to the mean number of steps) decreases, while the distribution law comes somewhat closer to the normal law. Only the signal detection is analyzed; no identification of the signal-carrying channel is attempted. "The author wishes to thank A. Ye. Basharinov for his attention to the work, and also G. A. Ososkov and G. L. Artem'yeva for the numerical simulation work." Orig. art. has: 5 figures, 44 formulas, and 1 table.

SUB CODE: 09 / SUBM DATE: 23Feb65 / ORIG REF: 004 / OTH REF: 005

Card 2/2 LC

TYSZKIEWICZ, Stanislaw; JEMIELNY, Franciszek

Myomatous leiomyosarcoma. Pat. Pol. 16 no.3:373-376 J1-S ' 65.

1. Z Zakladu Anatomii Patologicznej AM w Bialymstoku (Kierownik:  
prof. dr. med. L. Komczynski).

TYSKII, A. V.

PA GROUP	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50				
ST	CH	AV	AS	AT	BT	CT	DT	ET	FT	GT	HT	IT	JT	KT	LT	MT	NT	OT	PT	QT	RT	ST	TU	VU	WU	XU	YU	ZU	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ

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The production of "activated" concrete. A. V. Tyskii, *Sobrem. 18*, No. 10-11, 17-19 (1940); *Chem. Zentr.* 1941, II, 2985. The various possibilities for the utilization of the large amts. of boiler slag produced in Russian sugar refineries are discussed. In addn., processes for activating these slags by the addn. of slaked and unslaked lime in various doses during the milling or by the addn. of blast-furnace slag or Portland cement are discussed in detail. It is essential that the slag be subjected to suitable preliminary treatment in order to render the unburned C residue harmless. E. g., a slag of the following compn. gave good results when tested: SiO<sub>2</sub> 39.40, Al<sub>2</sub>O<sub>3</sub> 33.72, FeO 5.6, CaO 11.6, SO<sub>2</sub> 3.0, S 0.45 and ignition loss 12.50%. Concretes of exceptional properties were obtained with these activated slags. Treatment of the activated concrete with steam improved the strength.

M. G. Moore

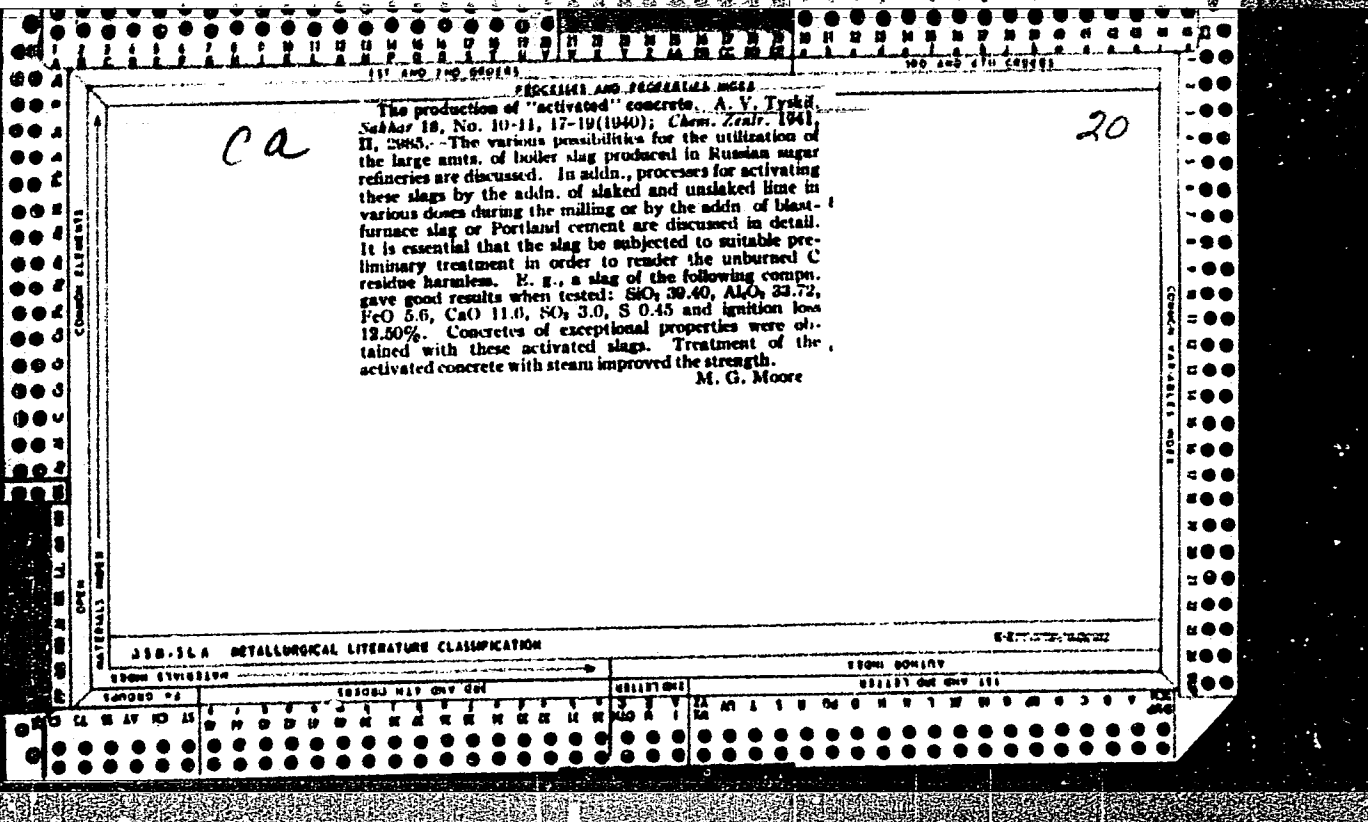


TYSKIEW, MARI

(3)

Raw materials of the world. Edwarda Rühle and Mari  
Tyskiel. *Panstwowy Inst. Geol. Prace special. No. 3*  
Vol. 1, 476 pp. (1932).—This contains data on Fe, Mn, Cr,  
Ni, Co, W, Sn, Mo, V, Ti, Cu, Pb, Zn, Cd, and pyrite.  
Coal *Ibid.* no. 3, Vol. 3, Pt. 1, 331 pp. (1952).  
Michael Fleischer





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AUTHOR: Tysl, Václav, Engineer

TITLE: Design of Cavity Resonators of Circular Cross-section

PERIODICAL: Slaboproudý obzor, 1961, Vol. 22, No. 3,  
pp. 148 - 152

TEXT: Several aspects of the design of circular cavity resonators are considered. The quality factor of a cylindrical resonator operating in the TE<sub>omp</sub>-mode is expressed by

(Ref. 1 - SNTL, Prague, 1957; J. Kvasil; .Ref. 2 - Tysl, V., Slaboproudý obzor, 1955, Vol. 16, No. 5, pp. 237-248):

$$Q = \frac{\omega \mu_0}{2 \sqrt{\frac{\omega \mu_r}{2\sigma}}} \cdot \frac{\alpha a^2 (\alpha^2 l^2 + p^2 \pi^2 a^2)}{\alpha^4 l^2 + 2p^2 \pi^2 \alpha^2 a^2 l^2} \quad (1)$$

where Q is the quality factor of the resonator with no-load  
 a is the radius of the resonator,  
 Cardl/6 l is its length,

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$\alpha$  is a root of the Bessel functions,  
 $\sigma$  is the conductivity of the resonator walls,  
 $\mu_0$  is the permeability of free space and  
 $\mu_v$  is the permeability of the resonator walls.

The resonator frequency is given by:

$$f = \frac{1}{2\pi} \cdot \frac{1}{\sqrt{\mu_v \epsilon_v}} \cdot \left( \frac{\alpha^2}{a^2} + \frac{p^2 \pi^2}{l^2} \right)^{\frac{1}{2}} \quad (2)$$

so that Eq. (1) can also be expressed as:

$$Q \cdot \sqrt{f} = \frac{\sqrt{\frac{\mu_0}{\epsilon_v}}}{2 \sqrt{\frac{\pi \mu_v}{\sigma}}} \cdot \frac{\alpha \left( 1 + \frac{p^2 \pi^2}{4a^2} \cdot \frac{D^2}{l^2} \right)^{\frac{1}{2}}}{1 + \frac{p^2 \pi^2}{4a^2} \cdot \frac{D^2}{l^2}} \quad (4)$$

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where  $D = 2a$ . Eq. (4) is represented graphically in Fig. 1 for  $TE_{01p}$ -mode for air dielectric and silver-plated resonator walls having a conductivity

$\sigma \approx 6.1 \times 10^7$  S/m. For a given frequency, the ratio of  $Q$  and volume of the resonator  $V$  can be expressed by:

$$\frac{Q}{V} = K \cdot \frac{\frac{D}{l}}{\alpha^2 + \frac{p^2 \pi^2}{4} \left(\frac{D}{l}\right)^2} \quad (6)$$

It can easily be seen that this expression has a maximum at

$$\frac{D}{l} = \sqrt{\frac{2\alpha^2}{p^2 \pi^2}} \quad (7)$$

Eq. (7) gives  $D/l$  at which the resonator has a maximum  $Q/V$ , regardless of the magnitude of  $Q$ . The points corresponding to Eq. (7) are illustrated by the dashed line in Fig. 1.

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