

TUTOVEANU, E.

They do not have to be ashamed of their products. Constr Buc 16  
no.761:2 8 Ag '64.

TUTOVEANU, E.

Much more attention to glass quality. Constr Buc 14 no.672:1 24  
N '62.

TUTOVEANU, E.; MAXIMILIAN, S.

Measures for the increase of the sheet-glass production. p. 2.  
(CONSTRUCTORUL. Vol. 9, no. 375, Mar. 1957, Bucuresti, Rumania)

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

TUTUWEANI, E.

Exigency at every stage of work. Constr. Dec 26 no. 16/11  
19 September '62.

TUTOVEANU, E.

On the agenda, reduction of specific consumption. Constr  
buc 16 no.758:2 18 Ji'64.

TUTOVEANU, E.

We are building a new factory of agglomerated wooden plates. p. 3.  
(CONSTRUCTORUL. Vol. 9, no. 379, Apr. 1957, Bucuresti, Rumania)

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

TUTOVEANU, E.

About quality. p. 1.  
(CONSTRUCTORUL. Vol. 9, no. 398, Aug. 1957, Bucuresti, Rumania)

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

TUTOVEANU, E.

The second youth of the factory. Constr Buc 16 no.736:2  
15 F'64.



TUTOVEANU, E.

Achievements and prospects. Constr Buc 15 no.700;2 8  
Je '63.

TUTOVEANU, E:

By four days earlier. Constr Buc 16 no.730:1 4 Ja'64.

TUTOVEANU, E.

Together and after the daily activity. Constr Buc 15 no.726:  
4 7 D '63.

TUTOVEANU, E.

The Dej of refractory products. Constr Buc 16 no.744:1 11 April  
'64.

TUTOVEANU, E.; Nandor, R.

More attention to the quality of ceramic products. p. 2.  
(CONSTRUCTORUL. Vol. 9, no. 401, Spet. 1957, Bucuresti, Rumania)

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

TUTOVEANU, E.

When the whole collective gives a hand.

P. 2 (CONSTRUCTORUL) (Bucuresti, Rumania) Vol. 9, No. 402, Sept. 1957

SO: Monthly Index of East European Accessions (IEAI) IC Vol. 7, No. 5. 1958

TUTOVEANU, E.

The economic situation can improve.

P. 2 (Constructorul. Vol. 9, no. 393, July 1957, Pucuresti, Rumania)

Monthly Index of EastEuropean Accessions (EFAI) LC. Vol. 7, no. 2,  
February 1958

TUTOVEANU, E.

Let us use labor's power in a productive way in winter also. p. 2

CONSTRUCTORUL, Bucuresti, Vol 8, No. 315, Jan. 1956

SO: East European Accessions List (EEAL) Library of Congress, Vol 5, No. 7, July 1956



TUTOVEANU, E.

Also quality, not only quantity!

p. 2  
Vol. 8, no, 343, Aug. 1956  
CONSTRUCTORUL  
Bucuresti

SO: Monthly List of East European Accessions (E AL), LC, Vol. 5, no. 12  
December 1956

TUTOVEANU, E.

TUTOVEANU, E. How to produce pottery at a low cost. p. 2.

Vol. 8, no. 350, Sept. 1956  
CONSTRUCTORUL  
TECHNOLOGY  
Rumania

So: East European Accession, Vol. 6, No. 5, May 1957

TUTOVEANU, E.

TUTOVEANU, E. That is to say, conditions could have been improved through  
patience alone. p. 2.

Vol. 8, no. 357, Nov. 1956

CONSTRUCTIBIL  
TECHNOLOGY  
Rumania

So: East European Accession, Vol. 6, No. 5, May 1957

TUTOVEANU, E.

TUTOVEANU, E. Meeting the winter fully prepared. p. 2.

Vol. 8, no. 38, Nov. 1956.

CONSTRUCTORUL  
TECHNOLOGY  
RUMANIA

So: East European Accession, Vol. 6, No. 5, May 1957

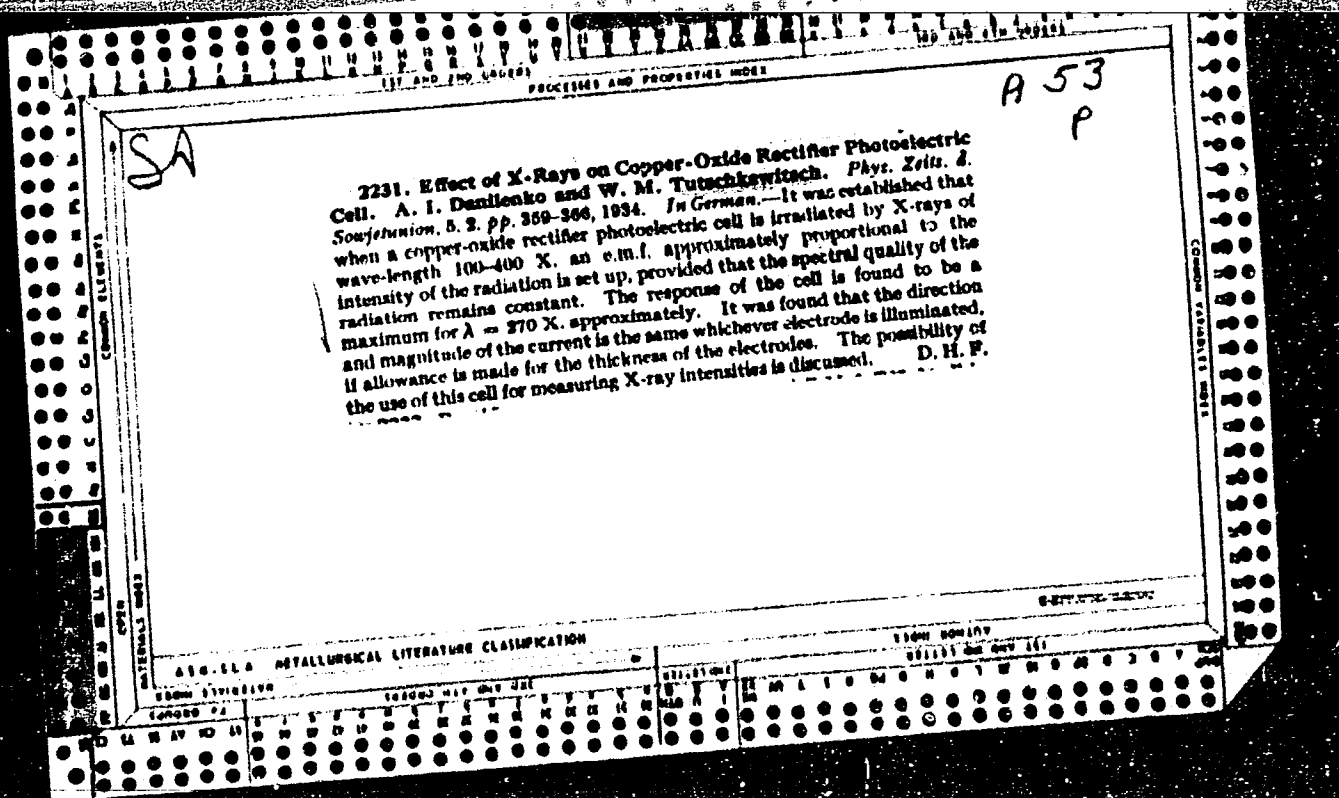
TUTOVIANI, E.

TUTOVIANI, E. Getting ready for the next manufacturing campaign. P. 2.

Vol. 4, no. 359, Dec. 1956

CONSTRUCTORUL  
TECHNOLOGY  
ROMANIA

So: East European Accession, Vol. 6, No. 5, May 1957



1ST AND 2ND PREFIX PROCESSES AND PROPERTIES INDEX

BC A-4

**Absorption spectra of oxyhaemoglobin of some  
Vertebata. T. TYMCZAKI and A. WOLOSCZUK  
(Acta phys. Polon., 1954, 7, 371-374). The absorp-  
tion spectra of oxyhaemoglobin from guinea-pig,  
and frog show identical structure. The absorption  
intensity varies with the source. Ch. Abs. (p)**

ASB-3LA METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND PREFIX PROCESSES AND PROPERTIES INDEX

1	2	3	4	5	6	7	8	9	0	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
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TUTOVEANU, M

RUMANIA/Chemical Technology - Chemical Products and Their Application, Part 3. - Industrial Synthesis of Dyes.

H-16

- Abs Jour : Ref Zhur - Khimiya, No 14, 1958, 47735
- Author : Ilie Matei, Elena Cacca, Maria Tutoveanu
- Inst : Academy of Sciences of Rumania, Jassi Branch.
- Title : To the Question of Conversions and Structural Regrouping of Nitroderivatives. Report 1. Dyes of o- and n-Nitrophenol.
- Orig Pub : Studii si cercetari stiint. Acad. RFR Fil. Iasi. Chim., 1956, 7, No 1, 215-222.
- Abstract : When heated with concentrated  $H_2SO_4$ , o- and n-nitrophenols are subject to conversions and regrouping similar to those occurring at naphthazarine formation of 1,5-dinitronaphthalene and polyoxyathraquinone formation of

Card 1/3



RUMANIA/Chemical Technology - Chemical Products and Their  
Application, Part 3. - Industrial Synthesis  
of Dyes.

H-16

Abs Jour : Ref Zhur - Khimiya, No 14, 1958, 47735

1,5-dinitroanthraquinone. Some of the obtained products are dyes good for wool fibers, the other are dyes good for cotton fibers and artificial silk. The mixture of 6 g of o-nitrophenol with 4.5 g of concentrated  $H_2SO_4$  is gradually heated to 140 - 150° being stirring, then it is heated one hour to 170°, after which it is heated to 180 - 185° and stirred about 1.5 hours at 180 - 185°; after the reaction end, o-nitrophenol, which has not participated in the reaction, is distilled off with steam, and a precipitate is separated by dissolving the residue with water, the precipitate is extracted with water and alcohol in order to eliminate the admixtures, after which it is dissolved in NaOH solution, and 3.5 g of 2,4,5,4'-tetraoxy-2'-oxo-5'-oximinodiphenyl (I)

Card 2/3

RUMANIA/Chemical Technology - Chemical Products and Their  
Application, Part 3. - Industrial Synthesis  
of Dyes.

H-16

Abs Jour : Ref Zhur - Khimiya, No 14, 1958, 47735

is separated by acidifying with  $\text{CH}_3\text{COOH}$ . A mixture of 5 g of n-nitrophenol, 6 g of  $\text{ZnCl}_2$  and 3 ml of glacial  $\text{CH}_3\text{COOH}$  is heated about an hour at  $190^\circ$ , the precipitate is separated by diluting the mixture with cold water, the precipitate is filtered off, washed with water in order to eliminate  $\text{ZnCl}_2$  and n-nitrophenol, which has not taken part in the reaction, and 3 g of I is obtained.

Card 3/3

AKHMEROV, R.B.; TUTROV, I.A., red.

[Experience in equipping oil fields of Bashkiria to be exploited without derricks] Opyt ustroistva neftiannykh promyslov Bashkirii dlia bezvyshechnoi ekspluatatsii. (MIRA 16:11)  
[n.p.] 1963. 23 p.

1. Starshiy inzhener Normativno-issledovatel'skoy stantsii Ob'yedineniya neftepromyshlennykh trestov i predpriyatiy Bashkirskoy ASSR (for Akhmerov).  
(Bashkiria--Petroleum production--Equipment and supplies)  
(Cranes, derricks, etc.)

L 20850-66 EWT(d) IJP(c)

ACCESSION NR: AP5020652

GE/0027/64/006/012/0881/0886

AUTHOR: Tutschke, W. 6

TITLE: Theory of parameter-dependent differential forms

SOURCE: Akademie der Wissenschaften, Berlin. Monatsberichte, v. 6, no. 12, 1964, 881-886

TOPIC TAGS: differential equation, mathematic matrix, mathematic function

Abstract: The article deals with reduced-period matrices and the solution of elliptical differential equations. The maximum-minimum principle is applied in the case where the absolute term of the equation vanishes. The parameter-dependent (adjunct) differential form is obtained by multiplying the differential elliptical equation for the function  $\rho$  by another function  $\mu$ . A theorem is proved on the vanishing of all periods of the differential form. The validity of certain assumptions made in the analysis is discussed and affirmed. Orig. art. has 11 formulas.

ASSOCIATION: Institut für reine Mathematik der Dt. Akad. Wiss., Forschungsgemeinschaft (Research Group, Institute of Theoretical Mathematics at the German Academy of Sciences)

Card 1/2

L 20850-66

ACCESSION NR: AP5020652

SUBMITTED: 21Jul64

ENCL: 00

SUB CODE: NA

NO REF SOV: 000

OTHER: 008

JPRS

Card

2/2

A. TUTSEVICH

N/5  
725.4  
.B3  
1954

- Spravochnik Po Ogorodnichestvu (Manual of Vegetable Gardening, by) M. Basin  
(1) A. Tutsevich. 7 izd., Dop. (Moskva) Profizdat, 1954.  
199 P. Illus., Diagr., Tables (V Pomoshch' Rabochim I Cluzhashchimogorodnikam)

TUTSKIY, N., EPSHTEYN, G., VIRNIK, D.

Gelatine.

Improving the technology of gelatin production. *Mias. ind.* 23 No. 4, 1952.

9. Monthly List of Russian Accessions, Library of Congress, December 1953<sup>2</sup> Uncl.

TUTSKIY, N., EPSHTEYN, G., VIRNIK, D.

Gelatine

Improving the technology of gelatin production. Mias. ind. 23 No. 4, 1952.

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



Tutsovic, Aleksandar  
YUGOSLAVIA/Forestry - Forest Plants.

K-5

Abs Jour : Ref Zhur - Biol., No 3, 1958, 10608  
Author : Tutsovic, Aleksandar  
Inst : Forestry Department, University of Beograd  
Title : Some Observations on Germination of Poplar Seeds.  
Orig Pub : Glasnik Shumarskog fak. Un-t Beogradu, 1955, 9, 167-177.  
Abstract : No abstract.

Card 1/1

BELOVA, L.A., inzh.; MAMIKONYANTS, L.G., doktor tekhn. nauk, prof.;  
TUTUBALIN, V.N., kand. fiziko-matematicheskikh nauk

Probability of insulation failure in turbogenerator stator  
windings dependent on the duration of the operation. Elektri-  
chestvo no.4:42-47 Ap '65. (MIRA 18:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut elektroener-  
getiki.

TUTUBALIN, V.N.; FREYDLIN, M.I. (Moscow)

Structure of the infinitesimal  $\mathcal{G}$ -algebra of a Gaussian process.  
Teor. veroiat. i ee prim. 7 no.2:204-208 '62. (MIRA 15:5)  
(Algebraic topology)  
(Probabilities)

TUTUBALIN, V.N. (Moscow)

Limit behavior of the composition of measures in Lobachevskii  
plain and space. *Tecr. veroiat. i ee prim.* 7 no.2:197-204 '62.  
(MIRA 15:5)

(Markov processes)  
(Topology)

TUTUBALIN, V.N.

Asymptotic behavior of compositions of measures in certain  
symmetrical spaces. Dokl. AN SSSR 143 no.2:286-288 Mr '62.  
(MIRA 15:3)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.  
Predstavleno akademikom A.N.Kolmogorovym.  
(Groups, Theory of)  
(Spaces, Generalized)

TUTUBALIN, V.N.

Asymptotic behavior of compositions of measures on a complex  
unimodular group. Dokl. AN SSSR 146 no.6:1286-1289 0 '62.

(MIRA 15:10)

1. Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova.  
Predstavleno akademikom I.G. Petrovskim.  
(Topology) (Groups, Theory of)

TUTUBALIN, V.N.

Asymptoti; behavior of compositions of measures in certain uniform spaces. Izv. AN SSSR. Ser. mat. 27 no.6:1301-1342 N-D '63.  
(MIRA 17:1)

TUTUBALIN, V.N. (Kyslov)

Composition of measures on a simple n/rotent group. Ser.  
varian. i de paim. o ra. 632-639 164.

May 17, 1961



TUTUBALIN, V.N. (Moscow)

Limit theorems for products of random matrices. Teor. veroiat.  
i ee prim. 10 no.1:19-32 '65. (MIRA 18:3)

I 32757-66 EWT(4) IJP(c)  
 ACC NR: AP6028240

SOURCE CODE: UR/0055/66/000/002/0070/0076

AUTHOR: Tutubalin, V. N. 26

ORG: Department of Theory of Probability, Moscow State University (Kafedra teorii veroyatnostey, Moskovskiy gosudarstvennyy universitet)

TITLE: Asymptotic behavior of the distribution of the product of complex unimodular matrices <

SOURCE: Moscow. Universitet. Vestnik. Seriya I. Matematika, mekhanika, no. 2, 1966, 70-76

TOPIC TAGS: mathematic matrix, asymptotic property

ABSTRACT: Let  $g_1, g_2, \dots, g_m, \dots$  be random independent matrices with the identical distribution  $\mathcal{M}$ . Consider the product

$g^{(m)} = g_1 g_2 \dots g_m$   
 and its representation in the form

$$g^{(m)} = u_1^{(m)} d^{(m)} u_r^{(m)} \quad (*)$$

where  $d^{(m)} = \text{diag}(d_1, \dots, d_n)$ ,  $0 \leq d_1 \leq \dots \leq d_n$ , and  $u_1^{(m)}, u_r^{(m)}$  are unitary matrices.

If the measure  $\mathcal{M}$  satisfies some (rather strong) conditions, it is possible to choose  $u_r^{(m)}$  and  $u_1^{(m)}$  in (\*) in such a way that all the multipliers in (\*) are almost independent for large  $m$ . Asymptotic distributions of these multipliers are also found. Orig. art. has: 6 figures. [JPRS: 35,630]

SUB CODE: 12 / SUBM DATE: 14Aug64 / ORIG REF: 004 / OTH REF: 003  
 Card 1/1 LS UDC: 519.21

TRUSCHENKO, Genen

Housing in the U.S.S.R.; notes of an architect. Moscow, Foreign Languages  
Publishing House, 1960.

134 p. illus.

Translation of original Russian: Zhilishchnoye stroitel'stvo v SSSR.

TUTUCHENKO, Semen Pavlovich; KIYANICHENKO, N.S., red.; YEREMINA, I.A.,  
tekh. red.

[Better buildings and developments] Luchshie zdanila i kom-  
pleksy . Kiev, Gosstroizdat USSR, 1962. 52 p.  
(MIRA 16:5)

(Ukraine—Building)

SURPAT, Gh., candidat in stiinte economice; ANESCU, V.; TUTUI, Gh.

Antinational and exploiting character of the Rumanian Monarchy.  
Probleme econ 15 no.12:182-197 D '62.

RES, Miloslav, inz., CSc; TUTUNAROVA, Iovka, inz. (Sofie)

Examples of the use of apparatus for the determination of  
the flow point. Sklar a keramik 13 no.11:299-302 N'63.

1. Tesla, n.p., Praha-Holesovice.

TUTUNARU, Dumitru, prof.; SEGARUZZINI, Marcel, conf.

Contributions to the study of spherical mechanisms for  
driving the cutting units in harvesters. Constr mas 16 no.  
7:362-366 JI '64.

MANGERON, D.; SILAS, Gh.; TUTUNARU, D.

Third International Conference on the Machine and Mechanism  
Theory, September 4-8, 1963, Miskolc, Hungary. Studii cerc  
mae apl 16 [i.e. 15] no.3:787-792 '64.



TUTUNARU, D.

Method of circular translation for the formation of plane mechanisms. Studii cerc mec apl 15 no.1:125-144 '64.

Diagnosis

RUMANIA

POPESCU, GR., Lieutenant Colonel, Medical Corps; NECULA, N., Lieutenant Colonel, Medical Corps; MARCULESCU, M., Lieutenant Colonel, Medical Corps; and TUTUNARU, E., Captain, Medical Corps.

"Voluminous Preaortic Abdominal Tuberculous Lymphoma. Report of Case"

Bucharest, Revista Sanitara Militara, Vol 62, No. 6, Nov-Dec 66, p. 1021-1024

Abstract: Report of case in woman aged 51, with recovery following surgical treatment and chemotherapy with Isoniazid, streptomycin and para-aminosalicylic acid; general discussion of diagnostic and therapeutic difficulties. 3 French, 4 Rumanian references. Manuscript received 25 Feb 66.

1/1

TURSUNO" Akhunova, brigadir; SARTBAYEV Rakhmatally, chaban; TUTUNARU, M.K.,  
zven'yevaya; KALYANA, K.R., okhotnik

Our country expects heroic deeds from you. IUn.nat. no.5:9  
My '62. (MIRA 15:7)

1. Kolkhoz imeni Kirova Chinazskogo rayona Tashkentskoy oblasti (for Tursunoy Akhunova).
2. Kolkhoz "Chayek" Dzhungal'skogo rayona Kirgizskoy SSR (for Sartbayev Rakhmatally).
3. Kolkhoz "Moldava" Strashenskogo rayona Moldavskoy SSR (for Tutunaru, M.K.).
4. Kolkhoz "Vozrozhdeniye" Iul'tinskogo rayona Magadanskoj oblasti (for Kalyana K.R.).  
(Pioneers (Communist youth)) (Agriculture—Study and teaching)

BINDIU, C.; DONITA, N.; TUTUNARU, V.; MOCANU, V.

Water economy of some plant associations on the Babadag Plateau,  
Dobruja. Rev biol 7 no.3:325-348 '62.

1. Biologisches Institut "Tr. Savulescu" der Akademie der  
RVR, Laboratorium für Geobotanik.

SANDA, V.; CIOBANU, I.R.; TUTUNARU, V.

Floristic studies on Istrita Hill. Studii cerc'biol s. bot  
16 no.6:477-495 '64.

1. Laboratory of Morphology and Vegetable Systematics,  
"Traian Savulescu" Institute of Biology.

GEORGESCU, C.C.; TUTUNARU, V.; CATRINA, I.

Humidity of the wood of the spruces defoliated by *Lymantria monacha* L. Studii cerc biol veget 14 no.3:259-276 '62.

1. Membru corespondent al Academiei R.P.R. (for Georgescu).

GEORGESCU, Const. C.; TUTUNARU, V.

Male catkins of the walnut tree (*Juglans regia* L.) of one-year-old shoots and their phylogenetic importance. *Rev biol* 8 no.3: 261-268 '63.

1. Akademie der RVR, Institut fur Biologie "Traian Savulescu",  
Laboratorium fur Pflanzensystematik.

TUTUNDZIC, Panta S.; DORDEVIC, Spasoje D.

Electrolytic refining of mercury in an acid solution of mercuric  
nitrate. Gl.hem.dr. 23/24 no.1/2:41-50 '58/59. (EAI 9:5)

1 Faculty of Technology, Institute of Physical Chemistry and Electro-  
chemistry, Beograd. 2. Urednik, Glasnik hemiskog drustva Beograd  
(for Tutundzic).

(Mercury) (Electrolysis) (Mercury nitrates) (Acids)



TUTUNDZIC, Panta, S.; DORDEVIC, Spasoje D.

Determining impurities in mercury by the polarographic method. Gl.  
hem.dr. 23/24 no.1/2:51-57 '58/59. (HEAI 9:5)

1. Faculty of Technology, Institute of Physical Chemistry and  
Electrochemistry, Beograd. 2. Urednik, Glasnik hemiskog drustva  
Beograd (for Tutundzic).

(Mercury) — (Polarograph and polarography)

ROGAL'SKIY, B., inzh.; TUTOV, P., inzh.

Mixed brigades are building apartment houses according to combined hourly schedules, Zhil.stroi. no.11:6-10 '59. (MIRA 13:4)  
(Moscow--Apartment houses)

85587

S/048/60/024/007/020/032/XX  
B019/B056

24.6720  
AUTHORS:

Bozhko, V. P., Zalyubovskiy, I. I., and Tutubalin, A. I.

TITLE:

Measurement of the Mean Lifetime of the  $Lu^{175}$  Nucleus in the Excited State With an Energy of 113.8 keV

X

PERIODICAL:

Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1960, Vol. 24, No. 7, pp. 847-849

TEXT: This paper was read at the 10th All-Union Conference on Nuclear Spectroscopy, which took place in Moscow from January 19 to 27, 1960.

The first excited state of the  $Lu^{175}$  nucleus, which is formed in the  $\beta^-$ -decay of  $Y^{175}$ , was investigated. As the  $\beta^-$ -transitions to this level amount to only 5% of all  $Y^{175}$ -decays, the experiments are very difficult. The apparatus to be used must therefore consist of a good discriminator and a good coincidence circuit. Stilbene crystals with a photomultiplier were used for the detection of  $\beta^-$ - and  $\gamma$ -emissions.  $\beta^-$ - $\gamma^-$  and  $\gamma^-$ - $\beta^-$  coincidence curves are shown in Fig. 2. From the distance between the centers of mass of these curves, the authors calculate the half-life of this state as

Card 1/3

85587

Measurement of the Mean Lifetime of the Lu<sup>175</sup> Nucleus in the Excited State With an Energy of 113.8 keV

S/048/60/024/007/020/032/XX  
B019/B056

amounting to  $T = (3.6 \pm 0.6) \cdot 10^{-10}$  secs. According to data supplied by Martin, Hatch, and Bernstein (Refs. 6-8), the authors estimate the mean lifetime of this state as amounting to  $1.1 \cdot 10^{-10}$  secs. Here, the E2 admixture was assumed to amount to 20%. There are 2 figures and 9 references: 3 Soviet, 4 US, and 1 Swiss. X

ASSOCIATION: Fiziko-tehnicheskiy institut Akademii nauk USSR (Institute of Physics and Technology of the Academy of Sciences UkrSSR)

Card 2/3

85007

S/048/60/024/007/020/032/XX  
B019/B056

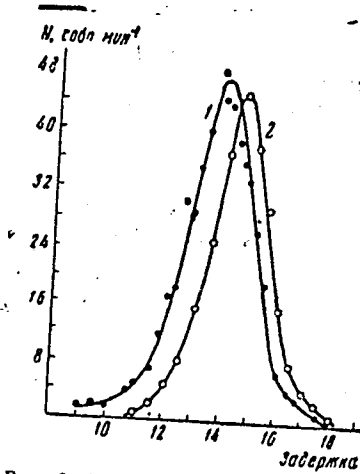


Рис. 2. Кривые задержанных  $\beta$ - $\gamma$ - (1) и  $\gamma$ - $\beta$ - (2) совпадений. Одно деление на оси абсцисс равно  $1,55 \cdot 10^{-9}$  сек

✓

Card 3/3

5

05794

16(1), 16(2)

AUTHORS: Karpelevich, F.I., Tutubalin, V.N., and Shur, M.G. SOV/52-4-4-5/13

TITLE: Limit Theorems for the Compositions of Distributions in the Lobachevskiy Plane and Space

PERIODICAL: Teoriya veroyatnostey i yeye primeneniya, 1959, Vol 4, Nr 4, pp 432-436 (USSR)

ABSTRACT: The authors investigate random variables in the Lobachevskiy space or plane L. The Borel measure  $\mu(\Gamma)$  is called symmetrical if for every Borel set  $\Gamma$  and every rotation  $h$  around the coordinate origin  $O$  it holds:  $\mu(h\Gamma) = \mu(\Gamma)$ . The composition

$$\mu_1 * \mu_2(\Gamma) \text{ is defined by } \mu_1 * \mu_2(\Gamma) = \int_L \mu_1(\theta_x^{-1}\Gamma) \mu_2(dx), \text{ where } \theta_x$$

is a motion in L which transforms  $O$  into the point  $x$ .  
 Theorem 1: Let  $\varphi(\eta)$  be a bounded zonal spherical function

(compare [Ref 2]). Then  $\int \varphi(\eta) \mu_1 * \mu_2(dx) = \int \varphi(\eta) \mu_1(dx) \cdot \int \varphi(\eta) \mu_2(dx)$ , where  $\eta = \rho(0, x)$  is the noneuclidean distance between  $O$  and  $x$  and  $\mu_1, \mu_2$  are symmetrical measures.

Card 1/3

0579L

Limit Theorems for the Compositions of Distributions in the Lobachevskiy Plane and Space SOV/52-4-4-5/13

Definition: the function  $f(\varrho) = \int \varphi(\varrho, \eta) \hat{\mu}(d\eta)$  is called a characteristic function of first kind for the finite symmetrical measure  $\mu$ . (Here  $\hat{\mu}(A) = \mu\{x; \varrho(0, x) \in A\}$ ).

Theorem 2: Let  $\mu_n$  be a sequence of symmetrical measures,  $\mu_n(L) \leq 1$ ; let its characteristic functions converge to  $f(\varrho)$ .

Then  $\mu_n$  converges weakly to a measure  $\mu$  the characteristic function of which is  $f(\varrho)$ , where  $\mu(L) \leq 1$ .

Definition:  $g(\varrho) = \frac{f(\varrho)}{f(0)}$  is called a characteristic function of second kind.

Theorem 3: If  $g_n(\varrho)$  converges to  $g(\varrho)$ , if  $\lim_{\eta \rightarrow \infty} h(\eta) = 0$  and if

$\int_0^{\infty} h(\eta) \hat{\mu}_n(d\eta) \rightarrow \int_0^{\infty} h(\eta) \hat{\mu}(d\eta)$ , then the measures  $\mu_n$  converge weakly to  $\mu$ .

Card 2/3

Limit Theorems for the Compositions of Distributions  
in the Lobachevskiy Plane and Space

05794  
SOV/52-4-4-5/13

Definition: Let the dispersion of  $\mu$  be

$$D(\mu) = -g''(g)|_{g=0} = -\frac{f''(0)}{f(0)} .$$

It holds

$$D(\mu_1 * \mu_2) = D(\mu_1) + D(\mu_2) .$$

Theorem 4 treats the convergence of the sequence  
 $\mu_{n,1} * \mu_{n,2} * \dots * \mu_{n,k_n}$

The authors mention M.Ye. Gertsenshteyn and V.B. Vasil'yev.  
There are 2 Soviet references.

SUBMITTED: December 25, 1958



TUTUBALIN, V.N. (Moscow)

Invariant random measures on a sphere. Teor. veroiat. i ee priz. 6  
no.1:125-130 '61. (MIRA 14:6)  
(Spaces, Generalized)

TUTUDZIC, PAULA PUTANOV

YUGOSLAVIA/Physical Chemistry - Electrochemistry.

B-12

Abs Jour : Referat Zhur - Khimiya, No 1, 1958, 557

Author : Panta S., Tutudzic, Paula Putanov.

Inst : Chemical Society (Yugoslav).

Title : Calomel and Sulfate Electrodes in Glacial Acetic Acid, Pyridine,  $\alpha$ -Picoline, 2,4-Lutidine and 2,6-Lutidine.

Orig Pub : Glasnik Hem. drustva, 1956, 21, No 5, 257-269

Abstract : With a view to enlarge the experimental possibilities of potentiometrical research in non-aqueous solutions, the potentials of following electrodes were determined (relatively to saturated c. e. in water): Hg / Hg<sub>2</sub>Cl<sub>2</sub>, satur. KCl, in CH<sub>3</sub>COOH + 0.27 v, in  $\alpha$ -picoline + 0.42 v, in 2,4-lutidine + 0.33 v, in 2,6-lutidine + 0.45 v; Hg / Hg<sub>2</sub>SO<sub>4</sub>, satur. K<sub>2</sub>SO<sub>4</sub>, in CH<sub>3</sub>COOH + 0.69 v, in pyridine

Card 1/2

YUGOSLAVIA/Physical Chemistry - Electrochemistry.

B-12

Abs Jour : Ref Zhur - Khimiya, No 1, 1958, 557

(I) + 0.34 v, in  $\alpha$ -picoline + 0.39 v, in 2,4-lutidine + 0.29 v, in 2,6-lutidine + 0.36 v. The calomel and sulfate electrodes are less stable in I and its derivatives than in  $\text{CH}_3\text{COOH}$  owing to the reduction of the Hg salts. The practical application of these electrodes is shown in examples of potentiometrical titration of I with sulfuric acid in  $\text{CH}_3\text{COOH}$ , solution of  $\text{AgNO}_3$  in I with the solution of  $\text{KSCN}$  in I and propionic acid with dimethylamine in picoline as a solvent.

Card 2/2

**BULG :**

The polarographic behavior of the geometric syn and anti oxime isomers. I. N. Tikhonoff and St. Baduroff. *Compt. rend. acad. bulgare sci.* 6, No. 6, 6-8 (1953) (Pub. 1954) (in German).—A polarographic study of the syn and anti forms of benzaldoxime with 0.1M (CH<sub>3</sub>)<sub>4</sub>N<sup>+</sup> as the indifferent electrolyte indicates the possibility of sepp. these 2 isomers. The polarogram for the syn form possesses two steps; for the anti form, one step. The half-wave potential of the first step of the syn form occurs at 1.84 v.; the second step possesses a half-wave value of 2.22 v. The step corresponding to the reduction of the anti isomer is identical with the first step of the syn isomer. The relation between concn. and step height is linear for both isomers. By using the above principles, it is possible to devise a polarographic method for the detn. of a mixt. of the 2 isomers. The first wave of the syn form is thought to be kinetic in nature; the 2nd wave of the syn form as well as the wave of the anti originate by diffusion. It is suggested that the 2 waves of the syn form are related to the 2 tautomeric forms of this isomer.

G. Dragt

BUYEVERCVA, YE. M., SIDYAKIN, G. P., TUTULOV, A. V.

Bentonite

Bentonites and clays of Uzbekistan. Vin. SSSr.12 No. 3, 1952.

Monthly List of Russian Accessions, Library of Congress, June 1952. Unclassified.

BUYEVEROVA, YE. M., SIDIAKIN, G. P., TUTULOV, A. V.

Clay - Uzbekistan

Bentonites and clays of Uzbekistan Vin. SSSR 12 No. 3, 1952.

Monthly List of Russian Accessions, Library of Congress, June 1952. Unclassified.

BOYEROVA, YE. N., SIDYAKIN, G. P., TUFULOV, A. V.

Wine and Wine Making - Uzbekistan

Bentonites and clays of Uzbekistan. Vin. SSSR 12 no. 3, 1952.

Monthly List of Russian Accessions, Library of Congress, June 1952. Unclassified.

TUTUNARU, D.; DEMIAN, Tr.

Plotting cam profiles by means of a generating curve. Trudy Inst.-  
mash.Sem.po teor.mash. 22 no.85/86:38-50 '61. (MIRA 14:12)  
(Cams)



TUTUNARU, D.; MURGULESCU, Elena

Mathematical mechanisms resulting from Newton's mechanism.  
Studii cerc mec apl 14 no. 6:1359-1386 '63.

TUTUNARU, D.; ~~REDACTED~~

TECHNOLOGY

PERIODICAL: METALURGIA SI CONSTRUCTIA DE MASINI. Vol. 10 no. 10, Oct. 1958

TUTUNARU, D. ; DEMIAN, T. The production of cosinusoidal and sinusoidal cam profiles by means of a generating curve. p. 861.

Monthly List of East European Accessions (EEAI) LC, Vol, 8, no. 4.  
April 1959, Unclass

TUTONARU, D.; MANAFU, V.

Invariability of the relationship of power transmission of gearing with the evolvent profile of gear toothings. p. 32.  
(Metalurgia Si Constructia De Masini, Vol. 9, No. 1, Jan. 1957, Bucuresti, Rumania)

SO: Monthly List of East European Accessions (EEAL) Lc. Vol. 6, No. 8, Aug 1957. Uncl.

TUTUNARU, D.

TUTUNARU, D.; MANAFU, V.

TUTUNARU, D.; MANAFU, V. New method for the determination of speed in mechanisms, the method of characteristic points. p. 6.

Vol. 8, no. 10, Oct. 1956  
METALURGIA SI CCNSTRUCTIA DE MASINI.  
TECHNOLOGY  
ROMANIA

So: East European Accession, Vol. 6, No. 5, May 1957

TUTUMARU, D.; DEMIAN, T.

Determining cam profiles in mechanism with plunger pushers.  
Studii cerc mecatronica no.6:1411-1418 '60.

1. Institutul politehnic, Bucuresti

GEORGESCU, C.C.; NITU, Gh.; TUTUNARU, V.

Research on the water circulation in the oak *Quercus robur* L. in the  
course of its drying. Studii cerc biol veget 12 no.4:475-495 '60.  
(EEAI 10:5)

1. Membru corespondent al Academiei R.P.R. (for Georgescu)  
(Oak)

TUTUNARU, V.; GEORGESCU, C.

Contribution to the knowledge of the micromycetic flora on the conifers of Rumania. In German. p. 41.

REVUE DE BIOLOGIE. JOURNAL OF BIOLOGY. (Academia Republicii Populare Romine) Bucuresti, Rumania. Vol. 3, no. 1, 1958.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 7, July 1959.

Uncl.

TUTUNARU, V.;GEORGESCU, C.;PETRESCH, M.

Lesions on the species Thuja and Chamaecyparis made by late frosts, and the fungi accompanying them. p. 291.

STUDII SI CERCETARI DE BIOLOGIE. SERIA BILOGIE VEGETABLA. Bucuresti.  
Vol. 10, no. 3, 1958.

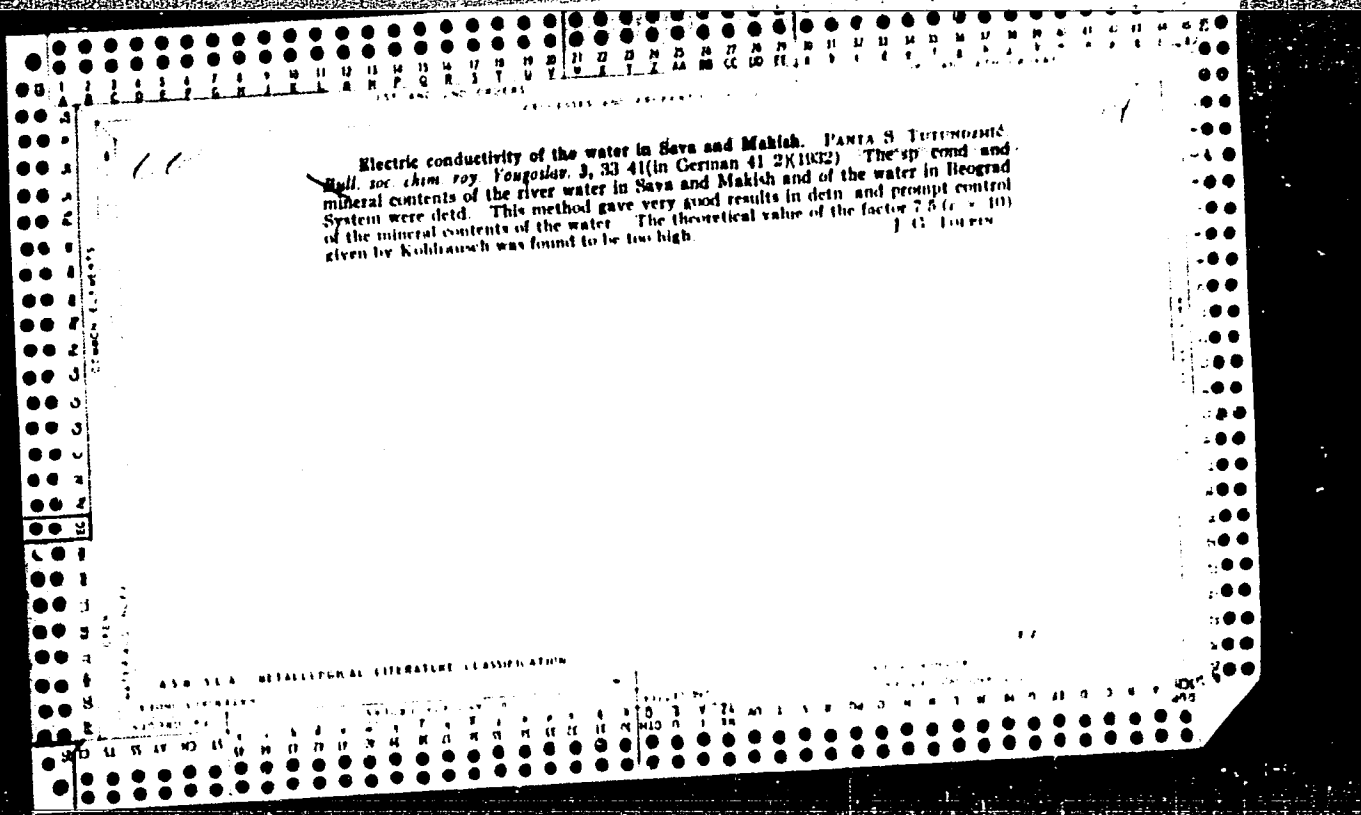
Monthly List of East European Accessions (BEAI) IC, Vol. 9, no. 1, January 1960.  
Uncl.

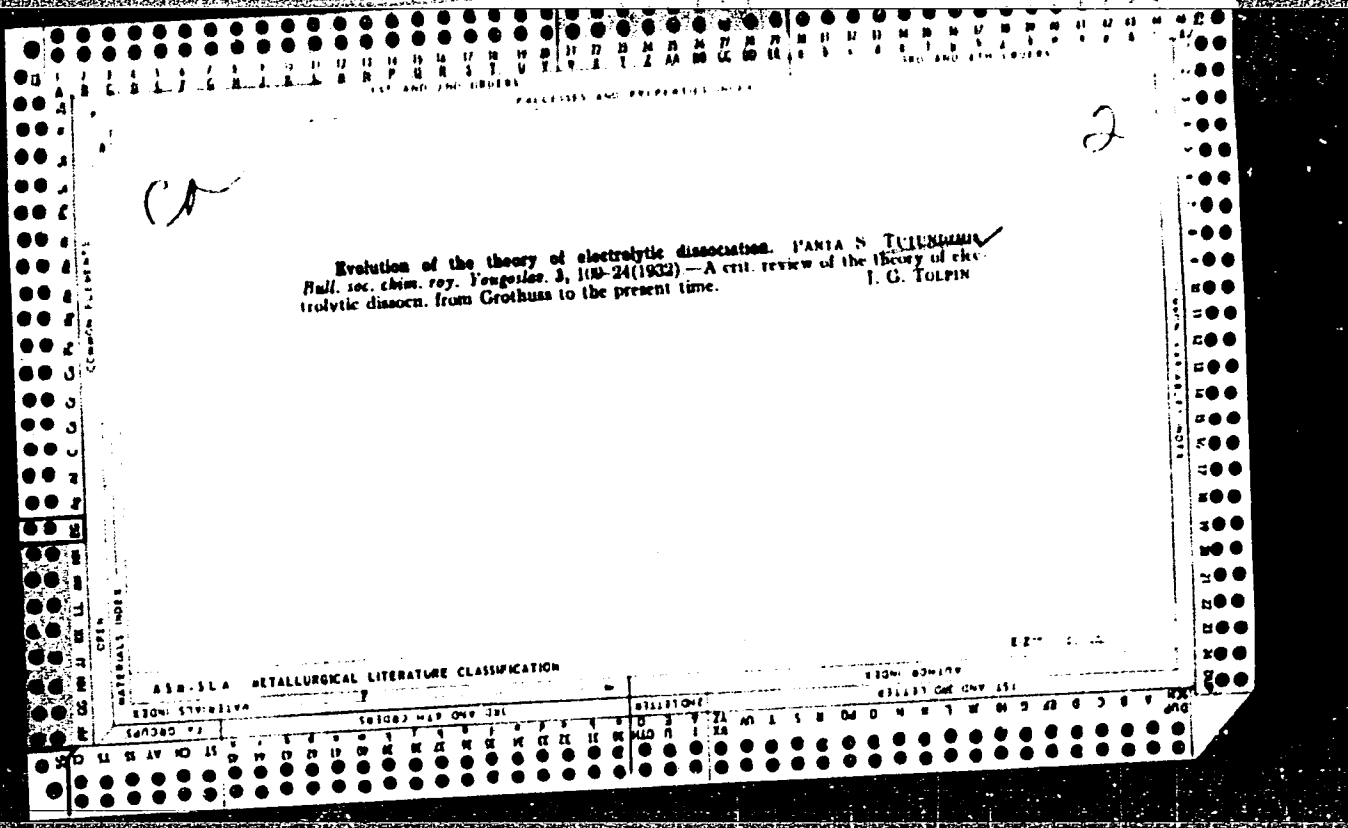


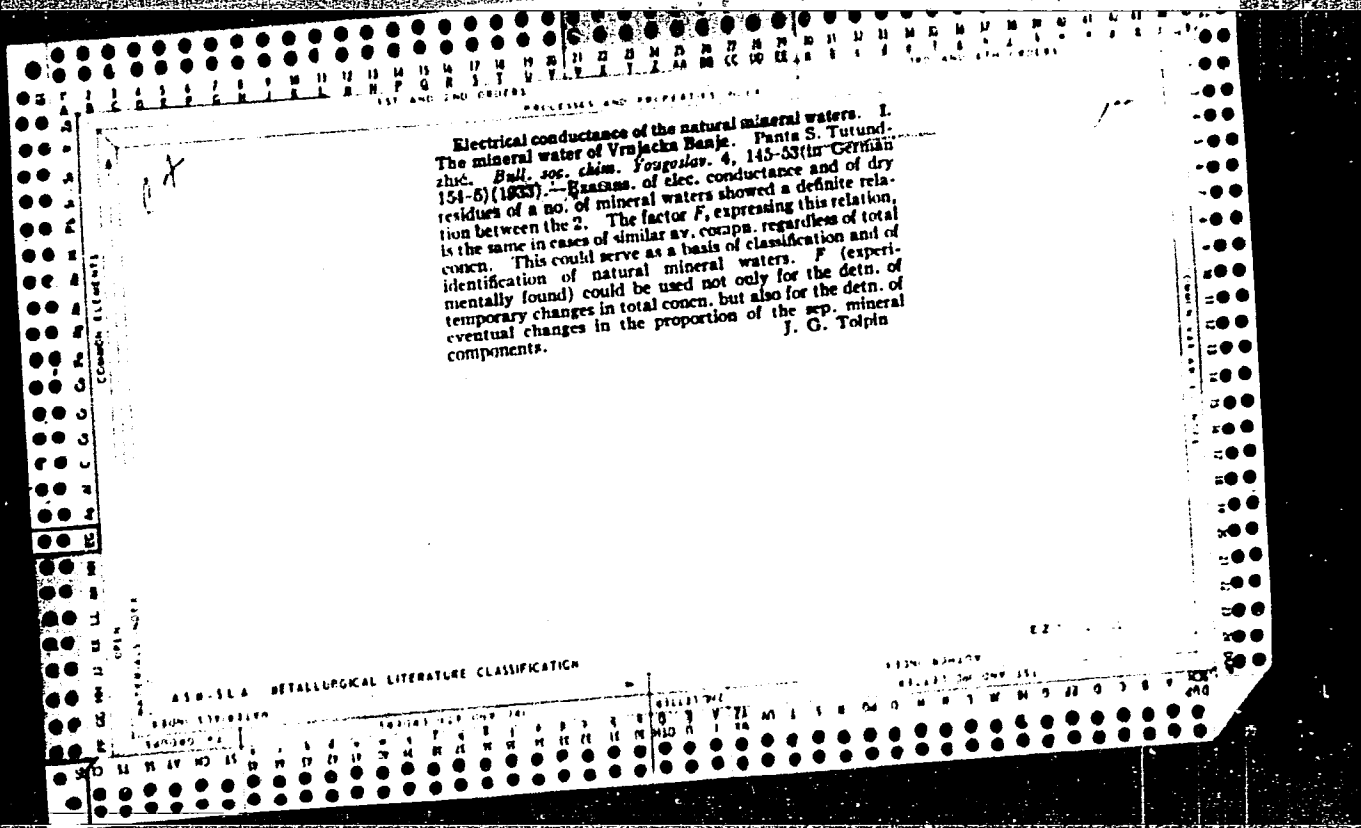
TUTUNDZHIAN, O.M.

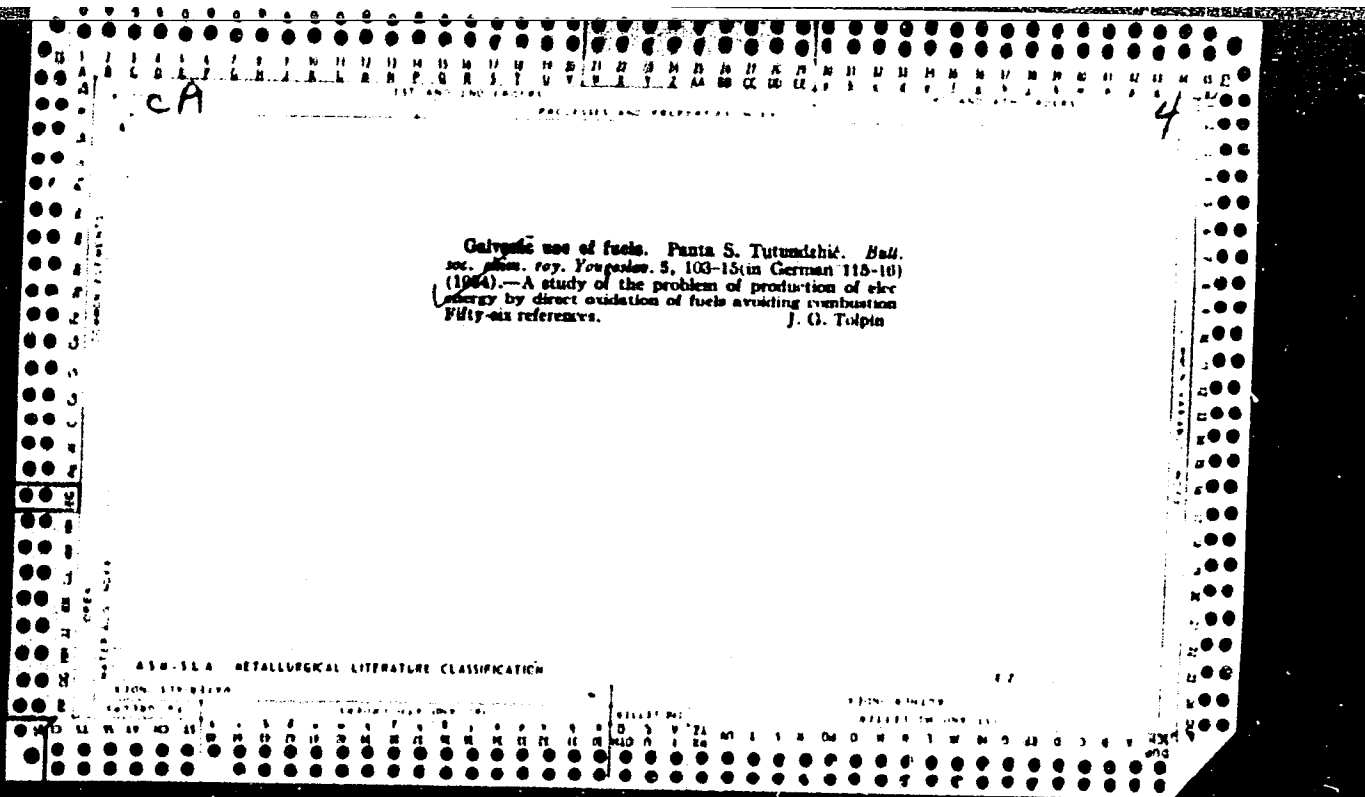
Developing the schoolchild's confidence in his own strength in sports [with summary in English]. Vop.psikhol. 4 no.4:128-134  
Jl-Ag '58. (MIRA 11:11)

1. Nauchno-issledovatel'skiy institut shkol Ministerstva prosveshcheniya ArmSSR, Yerevan'.  
(Physical education for children)











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 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

LIST AND THE ORDER OF PROCESSES AND PROPERTIES INDEX

14

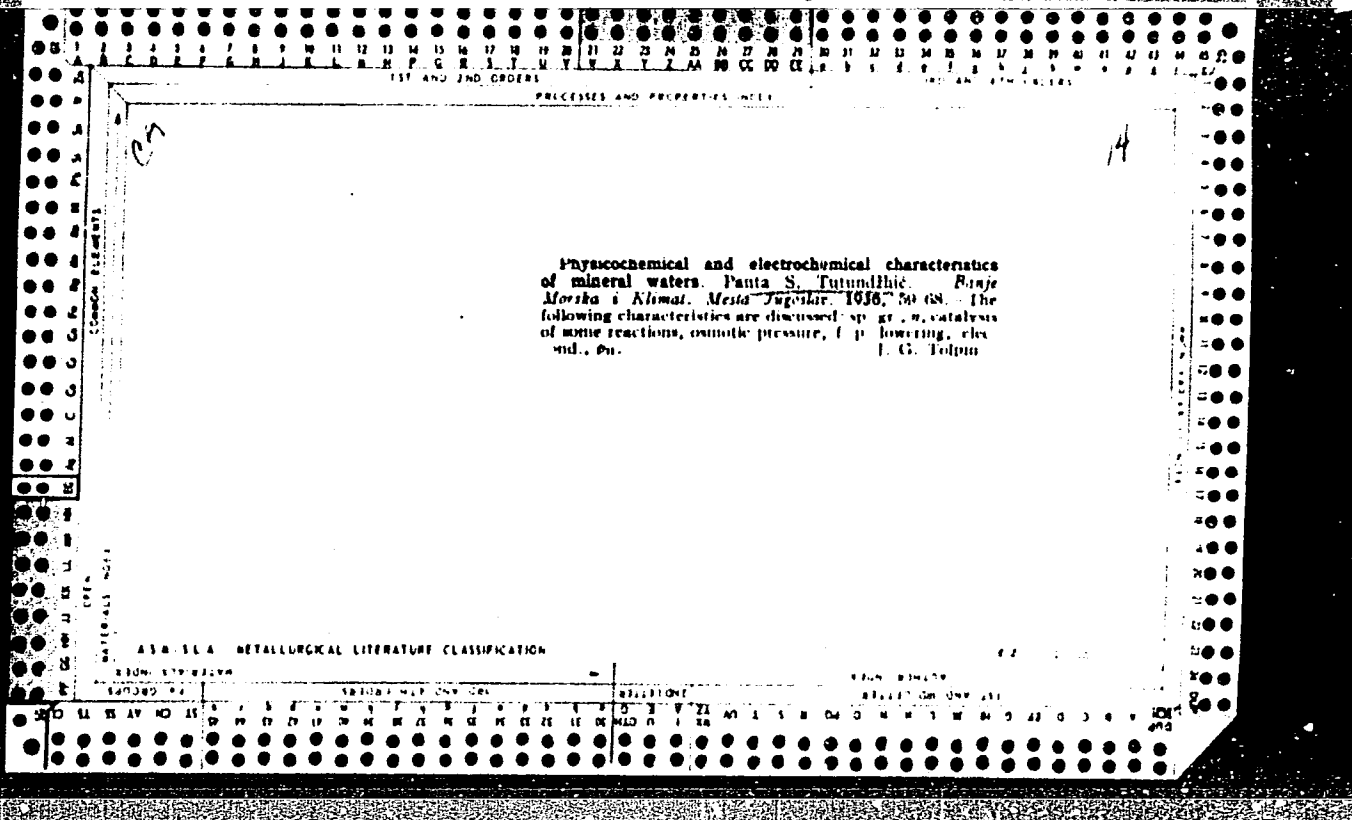
ca

Electrical conductivity of natural mineral waters. II. The mineral waters of Rogaska Slatina. Panta S. Tutundzic. *Bull. soc. chim. roy. Yougoslav.* 6, 203 (1936) *Chem. Abstr.* 213-15 (1935); cf. *C. A.* 29, 813. The total concn. of mineral matter in water can be accurately and quickly detd. with the aid of its elec. cond. and of factors  $F_1$  and  $F_2$  calcd. before and after boiling the water. The character of change in concn. of the water, elimination of Ca and Mg bicarbonates or of permanent components, can also be accurately judged by means of detn. of  $F_1$ . J. G. F.

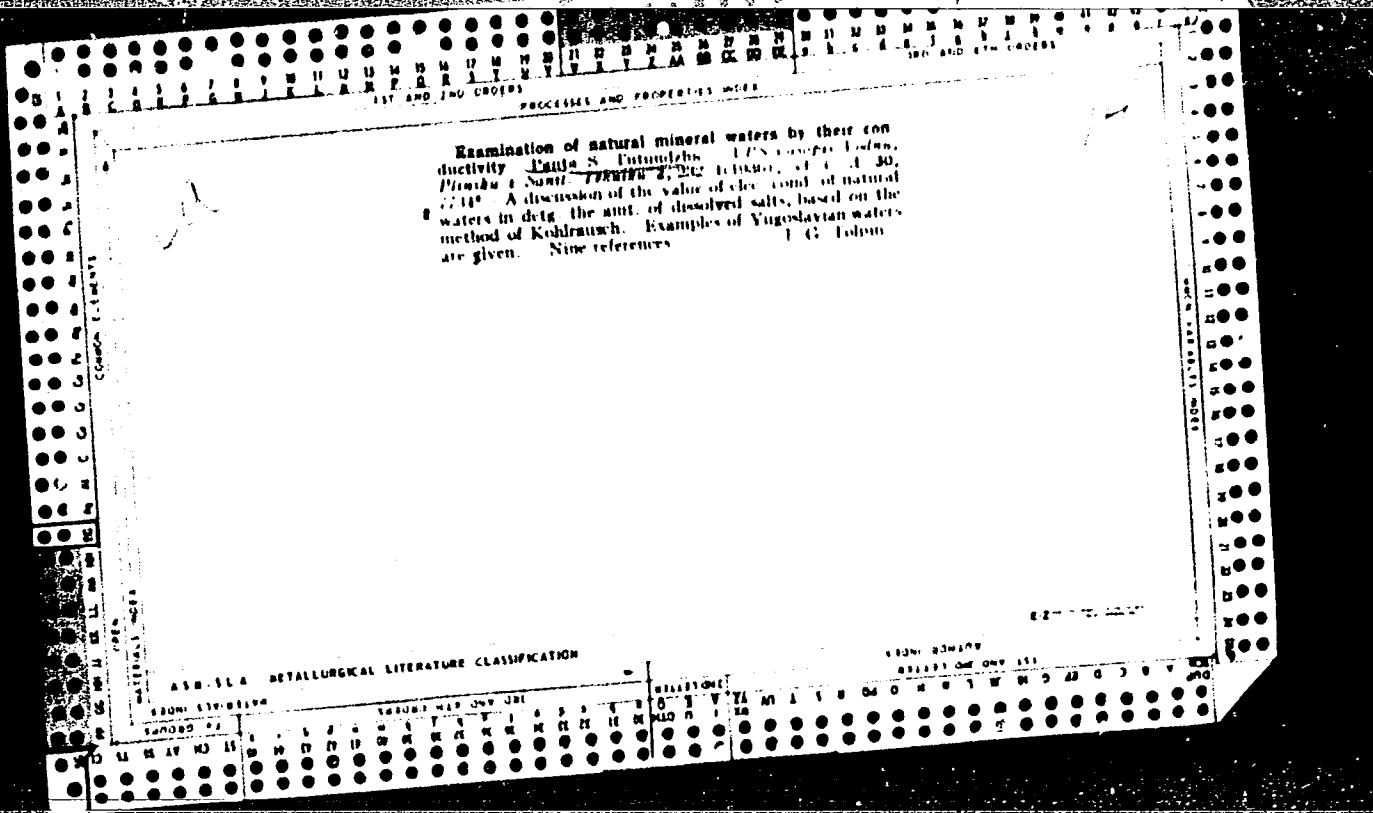
GENERAL NOTE

ASM-514 METALLURGICAL LITERATURE CLASSIFICATION

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 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100







PROCESSES AND PROPERTIES INDEX

4

CP

Simultaneous discharge of cadmium and hydrogen ions from solutions of simple cadmium salts. O. A. Esin, T. Beklemisheva and A. Matantsev. *J. Gen. Chem.* (U. S. S. R.) 8, 1382-6(1935); *J. chim. phys.* 33, 72-7 (1936); cf. *C. A.* 29, 3240<sup>a</sup>, 6326<sup>a</sup>.—A study was made of the relation between current efficiency in the deposition of Cd and concn. of H<sub>2</sub>SO<sub>4</sub> in the electrolyte at 25°. Concn. of H<sub>2</sub>SO<sub>4</sub> varied between 0.1 and 10 N; that of CdSO<sub>4</sub> kept const. at 1, 0.5, 0.25 and 0.125 N. The c. d. was 0.01, 0.005, 0.0025 and 0.00125 amp./sq. cm. The previously suggested general equation for simultaneous discharge of ions was found applicable. S. L. Madorsky

Simultaneous cathodic and anodic polarization. II. Primary anodes of platinum, palladium and gold. Paula S. Tatumdzik. *Z. Electrochem.* 62, 21-7(1958); cf. *C.A.B.* 59: 7889<sup>a</sup>.—Cathodic potentials of Pt, Pd and Au in 2 N H<sub>2</sub>SO<sub>4</sub>, measured by the Le Blanc method at room temp., are diminished by depolarizing the anode (1) chemically, (2) by reversal of the current, or (3) by superposing a c. The potentials were, by extrapolating to 0 c. d.: Pt 0.887 v., Pd 0.917 v. and Au 0.950 v. They differ from the theoretical decompn. potential for H<sub>2</sub>, 0.937 v. The effects on the anodic potential of different degrees of polarization and of varying the c. d., were detd. These results are explained by the formation of various unstable oxides on the anode, which give values varying with the amt. of depolarization. J. H. Reedy

METALLURGICAL LITERATURE CLASSIFICATION

6-3777-12-57

4

Electrode potentials in nonaqueous solvents. Panta  
S. Tutumlakic. *Bull. soc. chim. Belgrade* 11, No. 1/2,  
3-11(1946-46)(Pub. 1947)(in Serbian)(French summary).  
—The potentials of Ag|0.1 N AgNO<sub>3</sub> and Ag/satd.  
AgNO<sub>3</sub> were detd. in anhyd. pyridine, picoline, and luti-  
dine, over a period of 250 days. The most stable poten-  
tials were observed with satd. AgNO<sub>3</sub> solns. M. L. N.

ASS. SLA METALLURGICAL LITERATURE CLASSIFICATION

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	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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CA

14

The mineral waters of Bukovička banja. P. S. Tutundžić  
and C. D. Dordević (Technička Velika škola, Belgrade).  
*Bull. soc. chim. Belgrade* 16, 187-200 (1949) (French sum-  
mary); cf. *C.A.* 31, 6011<sup>b</sup>.—Data for 10 wells are given.  
VI. The mineral waters of Sijarinska banja. *Ibid.* 16,  
26-33 (1951).—Data for 8 wells are given. S. E. B.

CA

17

Electrical conductance of natural mineral waters. V  
The mineral waters of Pećska banja. P. S. Lutunđić  
and S. D. Dorđević (Tehnička Velika Škola, Belgrade).  
*Bull. soc. chim. Belgrade* 13, 209-17(1950)(French sum-  
mary); cf. *C.A.* 46, 4705a. - Elec. cond., pH, dry residue,  
and free CO<sub>2</sub> and HCO<sub>3</sub><sup>-</sup> concn. data are given. S. K. B.

COUNTRY : YUGOSLAVIA H  
CATEGORY : Chemical Technology. Chemical Products and Their  
Applications. Chemical Processing of Solid Fossil\*  
ABS. JOUR. : RZhKhim., No 19. 1959, No. 69040  
AUTHOR : Tutundzic, P.; Seganovic, V.  
INSTITUTE :                       
TITLE : Germanium and Other trace Elements in the Yugo-  
slavian Coals  
ORIG. PUB. : Tehnika, 1958, 13, No 10, Rud. i metalurg., 3,  
No 10, 237-238  
ABSTRACT : This is the resume of presentations made at the  
convention at Zagreb in 1958 on semi-conductors.  
For the determination of the trace elements 17  
varieties of Yugoslavian coals with varying degree  
of metamorphism were employed. The maximum Ge  
content in the coal ash amounted to 0.01, 0.0005,  
and 0.0002% respectively in the coals mined at  
Renovac, Racha and Rtani. The presence of Ga and  
Zn in the above coals was also established. Sb  
was also found in the Renovac coal.-- Ya. Satunovskiy  
\*Fuels.  
Card: 1/1

dicarbonyl, etc. cond. p, and d. The capacity of

Coulometric argentometry. Determination of chloride, bromide, and iodide ions. Franta S. Tutundžić, Iván Doronjavić, and Ozra Tatić (Univ. Belgrade, Yugoslavia). Anal. Chim. Acta 12, 481-8 (1955) (in German). — Ag<sup>+</sup> can be generated by anodic oxidation of a Ag-foil electrode in KNO<sub>3</sub> soln., with Pt gauze, wire, or foil as the cathode. Thus coulometric titrations of Cl<sup>-</sup>, Br<sup>-</sup>, and I<sup>-</sup> are possible. End points are detected with adsorption indicators (eosin in the case of Br<sup>-</sup> and I<sup>-</sup>, dichlorofluorescein for Cl<sup>-</sup>). Excellent results are described for the halides in the concentration range 10<sup>-4</sup> to 10<sup>-6</sup>M. The lower concentration limit depends upon the sensitivity of the end-point detn. The app. is simple: Ag<sup>+</sup> ions are generated with a const. current from a storage battery or a rectifier with voltage stabilizer, and the current is measured with a calibrated moving coil milliammeter.

CH

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2



TUTUNDZHICH, PANTE S.

Yugoslavia/Physical Chemistry - Thermodynamics. Thermochemistry. Equilibrium.  
Physicochemical Analysis. Phase Transitions, B-o

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 61032

Author: Tutundzhich, Pante S.; Liler, Militsa; Kosanovich, Bura

Institution: None

Title: Viscosity, Electric Conductivity, Refractive Index and Density  
of Liquid Systems of Acetamide with Orthophosphoric and with Di-  
chloracetic Acids

Original  
Periodical: Glasnik khem. drushtva, 1955, 20, No 2, 73-83; Serbian; English  
resumé

Abstract: Investigated were the viscosity ( $\eta$ ), electric conductivity ( $\chi$ ),  
refractive index ( $n$ ), and density ( $d$ ) of binary systems acetamide  
(I)-orthophosphoric acid (II) and I-dichloracetic acid (III) at 25°  
over the concentration interval 0-70 mol % I. In the system I-II  
 $\eta$  was measured only at 40°. Also investigated was the diagram of  
equilibrium of system I-II; there has been found a compound of the

Card 1/2

Yugoslavia/Physical Chemistry - Thermodynamics. Thermochemistry. Equilibrium.  
Physicochemical Analysis. Phase Transitions, B-8

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 61032

Abstract: composition 1:1 having the melting point  $46.5^{\circ}$ . Formation of this compound is confirmed by the nature of isotherms  $\eta$ ,  $n$  and  $d$  while  $\chi$  decreases uniformly on transition from II to I. In the system I-III there is a maximum at 40 mol % I which the authors explain by the possibility of formation of compounds 1:1 and 1:2. This conclusion is confirmed by the nature of isotherms  $n$ ,  $d$  and  $\chi$ .

Card 2/2

*TUTUNDJIC, PANTA*

YUGOSLAVIA/Physical Chemistry. Thermodynamics, Thermochem- B-8  
istry, Equilibria, Physical-Chemical Analysis, Phase  
Transitions.

Abs Jour: Ref Zhur-Khimiya, No 5, 1957, 14715

Author : Panta Tutundjic, Milica Liler, Djura Kosanovic

Inst : Chemical Society

Title : Viscosity, Electrical Conductivity, Refraction Index  
and Density of Binary Liquid Systems: Sulfuric Acid -  
Ethyl Ester, Sulfuric Acid - Amyl Ester and Phosphoric  
Acid - Ethyl Ester.

Orig Pub: Glasnik hem. drustva, 1955, 20, No 6, 349-361

Abstract: The viscosity, electrical conductivity and density of  
liquid systems  $H_2SO_4$ - ethyl ester,  $H_2SO_4$  - amyl ester  
and  $H_3PO_4$  - ethyl ester at 25 and 40°, as well as the  
refraction indices of the binary systems of  $H_2SO_4$  and  
 $H_3PO_4$  with ethyl ester at 25° were measured. The vis-  
cosity curves of these systems possess a maximum owing  
to the formation of molecular compounds. The positive

Card 1/3

YUGOSLAVIA/Physical Chemistry. Thermodynamics, Thermochemistry, Equilibria, Physical-Chemical Analysis, Phase Transitions.

B-8

Abs Jour: Ref Zhur-Khimiya, No 5, 1957, 14715

Abstract: divergence of refraction indices from the additivity rule and the computation of contraction confirm this conclusion. The electrical conductivity curves of mixtures of esters with  $H_2SO_4$  show maximum values at high  $H_2SO_4$  concentrations, while the electrical conductivity of the system  $H_3PO_4$  - ethyl ester gradually drops from  $H_3PO_4$  to ethyl ester. An equilibrium with the formation of compounds of the composition 1 : 1 is observed in the systems, but it is impossible to arrive at any conclusion regarding the formation of compounds containing one mole of the acid per two moles of the ester. The compound is more dissociated into components in the system  $H_2SO_4$  - amyl ester than in the system  $H_2SO_4$  - ethyl ester in consequence of the steric influence of the long alifactic chain. The compound in the system  $H_3PO_4$  - ethyl ester is also less stable than the compound in the system

Card 2/3