

LENGVENS, F., starshiy energetik

Operation of the Uglich locks. Rech. transp. 21 no.3:38 Mr  
'62. (MIRA 15:4)

1. Uglichskiy shlyuz. (Uglich--Locks (Hydraulic engineering))

SCHMINCKE, W., prof. dr. med. habil; LENGWINAT, A., dr. med. habil.;  
LORENZ, R., dipl. oec.

On a simple method for assessing morbidity in the People's  
Republic of Germany. Cesk. zdrav. 13 no.1:10-16 Ja '65

1. Lekarska akademie "Carl Gustav Carus", Ustav socialni  
hygieny, Drazdany.

LENGYEL, A.; BUJUM, O.; COCIUMAN, L.

Investigations concerning the action of antibiotics, in vitro & in vivo, on the sinus flora. Rumanian M. Rev. 1 no.2:89 Apr-June 57.

(SINUSITIS, ther.

antibiotics, eff. on sinus flora)

(ANTIBIOTICS, ther. use

sinusitis, eff. on sinus flora)

NASZ, I.; TOTH, M.; LENGYEL, A.

Adenoviruses isolated from excised tonsils. Acta microb. hung. 5 no.3:  
267-269 1958.

1. Institute of Microbiology of the University Medical School. Budapest.  
(ADENOVIRUS  
typing of strains isolated from excised tonsils)

LENGYEL, A.

NASZ, Istvan (az orvostudományok kandidátusa); TOTH, Margit; LENGYEL, Anna

Adenoviruses isolated from tonsillar tissue. *Magy. Tudom. Akad. Orv. Oszt. Kozl.* 9 no.1:135-139 1958.

1. A Budapesti Orvostudományi Egyetem Mikrobiológiai Intézete.  
(ADENOVIRUS  
in tonsillar tissue, isolated strains (Hun))  
(TONSILLIS, microbiol.  
adenovirus, isolated strains (Hun))

LÉNGYEL, Anna, Dr.; BANKI, György, Dr.; TÁFFER, Dezső, Dr.

Present state of the oral therapy of enterobiasis; application of papain and combined papain-piperazine therapy with special regard to child communities. Orv. hetil. 99 no.24:797-802 15 June 58.

1. A Budapesti Orvostudományi Egyetem Közegészségtani Intézetének (Igazgató: Melly József dr. egyet. tanár) közleménye.

(OXYURIASIS, in inf. & child  
ther., papain-piperazine citrate prep., oral admin. (Hun))

(PROTEASES, ther. use  
papain-piperazine citrate prep. in oxyuriasis in inf. & child,  
oral admin. (Hun))

(PIPERAZINES, ther. use  
piperazine citrate - papain prep. in oxyuriasis in inf. &  
child, oral admin. (Hun))

MOSONYI, Laszlo; CSIKY, Tivadar; RETSAGI, Gyorgy; LENGYEL, Anna; BAIASZI, Imre; Szemere, Pal

Experimental studies concerning the virus susceptibility of the organism following antibiotic therapy. *Magy. belorv. arch.* 12 no.1: 3-8 Feb 59.

1. Budapesti Orvostudományi Egyetem II. sz. Belklinikájának és Mikrobiológiai Intézetének (igazgató: dr. Alföldi Zoltán egyetemi tanár) közleménye.

(ANTIBIOTICS, inj. eff.

increased susceptibility to virus dis. (Hun))

(VIRUS DISEASES

increased susceptibility to virus dis. after antibiotic ther. (Hun))

NASZ, Istvan (Budapest, IX. Hogyes E.u.7/9, Hungary.);  
LENGYEL, Anna (Budapest, IX. Hogyes E.u.7/9, Hungary.);  
DAN, Pal (Budapest, IX.Hogyes E.U.7/9, Hungary.)

Adaptation of continuous cultures of human amniotic and  
Detroit-6 cells to heterologous sera. Acta biol Hung 12  
no.2:141-146 '61.

1. Institute of Microbiology, Medical University,  
(Head: Z.Alfoldy) Budapest.

\*



NASZ, I.; LENGYEL, Anna; DAN, P.; KULCSAR, Gizella

Informative studies on the hemagglutination spectra of adenoviruses.  
Acta microb. 9 no.1:69-76 '62.

1. Institute of Microbiology, University Medical School, Budapest  
(Director: Z. Alföldy).  
(HEMAGGLUTINATION) (ADENOVIRUS)

NASZ, Istvan; LENGYEL, Anna; DAN, Pal; KULCSAR, Gizella

Investigations relating to the hemagglutination properties  
of adenoviruses. Biol orv kozl MTA 13 no.1-2:191-200 '62.

1. Budapesti Orvostudományi Egyetem Mikrobiológiai Intézete.

LENGYEL, Anna; DAN, P.; NASZ, I.; KULCSAR, Gisella; CSERBA, Ida.

Influence of temperature and pH on the haemagglutinating activity and haemagglutination-inhibition test of adenoviruses. Acta microbiol. Hung. 10 no.3:253-259 '63.

1. Institute of Microbiology (Director: Z. Alföldy), University Medical School, Budapest.

\*

HUNGARY

LENGYEL, A., DAN, P., NASZ, I., KULCSAR, G., CSERBA, I.: Medical University of Budapest, Microbiological Institute (Budapesti Orvostudományi Egyetem Mikrobiológiai Intézet).

"Investigation of Factors Influencing the Hemagglutinational Characteristics of Adenoviruses."

Budapest, Kiserletes Orvostudomány, Vol XV, No 3, June 1963, pp 319-325.

Abstract: [Authors' Hungarian summary] The influence of temperature and pH on the rat erythrocyte agglutination by type 9 adenovirus was examined. Of five temperatures tested (4°C, R.T., 37°C air, 37°C and 40°C bath), 4°C and room temperature were optimal. The results were confirmed by experiments with types 10 and 13 of the virus. The effect of pH on the hemagglutination was tested at pH 6, 7, 7.5, 8, 8.5, 9 and 10. The optimum was found to be pH 9, 8.5 giving results close to the optimum. The sensitivity of the erythrocyte suspension to hemagglutinin was not impaired by standing, it even increased slightly between pH 7-9. If equal amounts of the virus are used, the hemagglutination-inhibiting reaction was not influenced by pH. 5 Hungarian, 7 Western references.

1/1

NASZ, I.; DAN, P.; LENGYEL, A.; CSERBA, I.

Laboratory infection with adenovirus type 8. Szemeszet 100  
no. 2:99-104 Je '63.

1. BOTE Mikrobiológiai Intézet, igazgató: Alföldy Zoltán  
egyet. tanár.

(ADENOVIRUS INFECTIONS) (KERATOCONJUNCTIVITIS)  
(OCCUPATIONAL DISEASES)

LENGVEL, A.

HUNGARY

MASZ, I., KULCSAR, G., DAN, P., LENGVEL, A., CSEREA, I.; Medical University of Budapest, Microbiological Institute (Budapesti Orvostudományi Egyetem, Mikrobiológiai Intézet).

"The Etiology of the Kerato-Conjunctivitis Epidemica of 1961-62 in Budapest."

Budapest, Orvosi Hetilap, Vol 104, No 10, 10 Mar 1963, pages 442-445.

Abstract: [Authors' Hungarian summary modified] The authors attempted to clarify the etiology of the epidemic by isolation of the virus, hemagglutination and neutralization tests and complement-binding reactions. Nine strains of adeno viruses were isolated, seven of which belonged to type 8, two were found to be of type 6. It was demonstrated that hemagglutination inhibiting antibodies are produced in men after type 8 adeno virus infection which are as specific as the neutralizing antibodies. Since hemagglutination tests are easier to carry out than the virus neutralization tests, they are recommended for the study of kerato-conjunctivitis epidemica. 13 Western, 13 Eastern European references.

11/1

NASZ, I.; LENGYEL, Anna; DAN, P.; KULCSAR, Gisella

Heterotypic haemagglutination inhibition in the adenovirus group. Acta microbiol. acad. sci. Hung. 10 no.4:379-385 '63-'64

1. Institute of Microbiology (Director: Z. Alföldy), University Medical School, Budapest.

*LENGUEL,*  
VINCE, Augustin, dr.; LENGUEL, Anna, dr.; NASZ, Istvan, dr.

Late course of the type 8 adenovirus infection associated with roentgenological changes in the lung. Orv. hetil. 105 no.29: 1366-1368 19 JI'64.

1. Budapesti Fovarosi Laszlo Korhaz, Rontgenosztaly es Budapesti Orvostudomanyi Egyetem. Mikrobiologiai Intezet.



LENGYEL, Anna; NASZ, I.

Adenovirus haemagglutination-inhibiting antibodies in human sera.  
Acta, microbiol. acad. sci. Hung. 11 no.2:105-113 '64.

1. Institute of Microbiology (Director: Z. Alföldy) University  
Medical School, Budapest.

L 31459-66

ACC NR: AP6023101

SOURCE CODE: HU/0031/66/000/002/0058/0062

AUTHOR: Lengyel, Attila--Lendel, A.

42  
B

ORG: Research Institute for Telecommunication (Tavkozlesi Kutato Intezet)

TITLE: Design of a mechanism for driving wobblers

SOURCE: Finomechanika, no. 2, 1966, 58-62

TOPIC TAGS: microwave, frequency control, electronic component, microwave component

ABSTRACT: The design of a microwave wobbler, required to furnish alternating motion at a frequency of 300/min. at a stroke variable between 20 and 0.5 mm., without disturbing additional vibrations, was described. The calculation of the design parameters was described in detail, and the construction, performance, operation, and applications of the device was described and illustrated. Orig. art. has: 4 figures and 46 formulas.

[JPRS]

SUB CODE: 09 / SUBM DATE: none / ORIG REF: 005

Card 1/1 mc

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PROCESSES AND PROPERTIES INDEX

ca

New method for measuring the limiting potential of two phases. B. LENOVEL

2

*Magyar Chem. Folyóirat* 36, 89-94, 105-11(1930).—The mutual charge of 2 outwardly isolated phases formed because of the change of potential in the double zone is used for quant. measurement. The e. m. f. of concn. chains: normal electrode | soln. | solid phase | soln. | normal electrode, may be measured by this method. The method of dielectric  $\epsilon_1$  may be used directly for measuring the phase limit potential of quartz | aq. soln. | even solid cryst. substances can be measured with slight modifications. The sensitivity of the method is  $\approx 1$   $\mu$ v. A metal electrode was used instead of dielectric in control expts., results of which agreed with the data of the former method. Preliminary report of phase limit potential of quartz | electrolyte soln.: Quartz glasses are examd. on their H electrode function by measuring the e. m. f. of an acid-alkali-chain and an alkali-acid chain. The reproducible difference totaled about 300 mv. Preliminary concn.-e. m. f. curves show maxima at  $\mu$  12.

S. S. DE FINALLY

ASW 51.4 METALLOGICAL LITERATURE CLASSIFICATION

LENGYEL, BELA

The electric double layer. I. Thermodynamics of the double layer. II. Structure of the double layer. Lengyel. *Magyar Chem. Folyóirat* 38, 98-110(1932). S S DE FINAY layer. TIMOR ERDHY-GRUZ. *Ibid* 111-22.—A review.

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

1ST AND 2ND ORDERS      PROCESSES AND PROPERTIES INDEX      3RD AND 4TH ORDERS

21

19

Structure of glass. Béla Lengyel. Magyar Chem. Folyóirat 39, 73-82(1933).—A summary of present theories on structure and mol. architecture of glass. S. S. de. F.

COMMON ELEMENTS

OPEN MATERIALS INDEX

ASH-SLA METALLURGICAL LITERATURE CLASSIFICATION

E-Z

1ST AND 2ND LETTERS      AUTHOR INDEX      3RD AND 4TH ORDERS      1ST AND 2ND LETTERS

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

PROCESSES AND PROPERTIES INDEX

19

CA

The  $\zeta$ -potential of glasses of various compositions. Béla Lengyel and János Vincze. *Magyar Chem. Folyóirat* 47: 20-4 (1941).—The glasses investigated contained in mol. % (1) SiO<sub>2</sub> 72, Na<sub>2</sub>O 22, and CaO 6, (2) SiO<sub>2</sub> 60, Na<sub>2</sub>O 24 and CaO 16, (3) SiO<sub>2</sub> 75, B<sub>2</sub>O<sub>3</sub> 11, Al<sub>2</sub>O<sub>3</sub> 8 and Na<sub>2</sub>O 11, and (4) SiO<sub>2</sub> 72, B<sub>2</sub>O<sub>3</sub> 14, and Na<sub>2</sub>O 14. The cataphoretic migration velocity of the single glass suspension was measured in sols. contg. various concns. of H and Na ions. The  $\zeta$ -potential is not affected by the chem. compn. of the glass. S. S. de Finály

METALLURGICAL LITERATURE CLASSIFICATION

A 53-11.4

E-2777

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	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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Lengyel, B.

Hungarian Technical Abst.  
Vol. 5 No. 2  
1953

663.632.42.012.2  
19. On the quantity of lime required for the treatment of industrial waters -- *Iparról az élethétségű víz tisztításáról* -- B. Lengyel, A. Schueg and B. Csákvári. (Journal of the Hungarian Chemical Society -- *Magyar Kémikusok Lapja* -- Vol. VII, No. 4, April 1952, pp. 117-121, 1 fig., 2 tabs.)

The quantity of lime required for decarbonizing industrial (mainly boiler feed) waters is less than the quantity arrived at through computations with stoichiometric equations. Experiments proved that the difference was caused by the magnesium content of the natural waters. The quantity of lime required for decarbonization is determined by the following formula based on the results of investigations:  $\text{lime} = 10(K + Mg/0.1 + 0.02Mg) + c$ , where  $K$  = the quantity of carbonates,  $Mg$  = magnesium hardness,  $c$  = free carbonic acid, all in "German hardness degrees" (one degree = 10 mg CaO in one l of water). Experiments conducted with natural and artificially prepared waters have proven that the proposed formula gives more accurate and generally valid results than any used so far.

B. Lengyel



Lengyel, B.

3

HUNG :

12. Preparation of tetraethoxy titanium - *A tetra-  
toxittán előállításáról* -- B. Lengyel and T. Garai (Hun-  
garian Journal of Chemistry - *Magyar Kémiai Folyóirat* -  
Vol. 59, 1933, No. 11, pp. 343-345, 2 tabs.)

A simple method was elaborated for the preparation of tetraethoxy titanium. By reacting titanium tetrachloride with dry ammonia gas, titanium tetrachloride hexamine is produced. By treating the latter with ethanol tetraethoxy titanium is obtained. The product was filtered and then fractionated under reduced pressure yielding the pure ester. The compound was identified by chemical analysis and by determining the boiling point. Cryoscopic measurements were carried out to determine the association of the molecules.

AA  
AND

LENGYEL, B.

Electric conductivity of glass. I. Conductivity of mixed glass. p. 37. (Koslemenyei, Budapest, Vol 4, no. 1/2, 1954)

SO: Monthly list of East European Accessions (EEAL), LC Vol 4, no. 6, June 1955 Uncl

Lengyel Bela

ink.

Electric conductivity of glass. I. Conductivity of mixed glasses. Bela Lengyel and Zoltan Boksy (Eötvös Loránd Univ., Budapest). *Z. physik. Chem.* (Leipzig) 203, 93-112 (1954).—The elec. cond. of mixed glasses shows a min. that is explained by aid of a model for the elec.-cond. mechanism in glass based on the assumption that the model glass is a pure alkali ion conductor and that the migration of the ions is effected by transition from one lattice hole to another in the next layer. Based on that model the geometric hindrance was also calcd. for the transition of a greater ion into the lattice hole vacated by a smaller one. An equation for the cond. is deduced:  $\kappa = A'(n_1 F_1 \epsilon_1 + n_2 F_2 \epsilon_2)$  in which  $\kappa$  = cond. of the mixed glass,  $\epsilon_1$  and  $\epsilon_2$  = cond. of the pure components 1 and 2,  $n_1$  and  $n_2$  the mol. fraction of 1 and 2 resp.,  $A$ ,  $F_1$ , and  $F_2$  = factors that are characteristic of the degree of hindrance of the migrating ions, and  $r$  = a const. characteristic of the glass used, which does not depend on the temp. and which is probably a measure of the no. of lattice holes present in the glass before a current is passed through it. Similarly, equations were deduced for the transport nos. for the ion 1 and 2 resp.:  $\nu_{1(2)} = n_{1(2)} F_{1(2)} / (n_1 F_1 + n_2 F_2)$  which are also independent of the temp. The values calcd. from the theoretically deduced equations agreed with the exptl. results.

Friedrich Epstein

BC

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Lengyel, Bela

U.S.S.R.

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Ion emission of glass. Béla Lengyel and Ferenc Till  
 (Hungary). *Journal of Phys. Chem.* (Leipzig) 203, 312-17 (1951).—The ion emissivity of solid K-Na mixed glasses was detd. quantitatively at 470° as a function of the glass compnt. A thin tube of the glass to be measured was surrounded by a cylindrical collecting cathode and heated electrically by Pt wires connected with the ends of the tubes, which were covered with a Pt layer. The anodic voltage was 200 v. The ion current varied from  $2.5 \times 10^{-9}$  amp./sq. cm. for pure K glass to  $3.0 \times 10^{-9}$  amp./sq. cm. for pure Na glass, having a marked min. of  $0.10 \times 10^{-9}$  amp./sq. cm. for a mol. ratio of K:Na = 1:1 in the glass. The current, which is independent of the anodic voltage, was measured with a valve galvanometer. The cond. slope of the glasses investigated, which was also measured, is similar to that of the emissivity. Also in *Magyar Tudományos Akad. Kém. Tudományok Osztályának Közleményei* 5, 329-33 (1954). Friedrich Epstein

① [Handwritten signature]

LENGVEL, B.

✓ Glass electrodes insensitive to alkalis. B. Lengyel  
et al. *Magyar Kémikusok Lapja* 9, 285-8(1954); *Hung.  
Tech. Abstr.* 7, No. 2, 5(1955).—Expts. were carried out to  
produce Li glass electrodes insensitive to alkalis. The  
errors of the electrode glasses produced at high pH values  
were detd. The errors of the electrode glasses due to the  
presence of different alk. ions in various concns. are given.  
It was found that Jordan's empiric equation is applicable for  
the computation of the alk. error of Li electrode glasses, and  
the consts. of this equation are given. A nomographic  
chart is furnished for the calibration of the electrode glasses  
in the presence of different alk. ions. K. L. C.

2

PM  
HT

LENGYEL, BÉLA

Alkali-free suspension buffers. Béla Lengyel and Béla Csákvári (Eötvös Univ., Budapest). *Magyar Kém. Folyóirat* 61, 78-80 (1955).—Buffer systems free of alkali, not sensitive against the action of CO<sub>2</sub> in air, and suited for the prepn. of systems of identical pH values but of different concns. of alkali ions can be obtained by dissolving 158 g. Ba(OH)<sub>2</sub>·8H<sub>2</sub>O and 0.8 mole BaCl<sub>2</sub>·2H<sub>2</sub>O in 1000 ml. distd. H<sub>2</sub>O and shaking 1 hr. The system, with a pH of 13.34 at 20°, was stable for 1 year. In another method 10 g. alkali-free MgO and 1 mole MgSO<sub>4</sub>·7H<sub>2</sub>O are dissolved in 1000 ml. distd. H<sub>2</sub>O and shaken for 1 hr. The pH of the product, 9.18 at 25°, was stable. In the 3rd method 10 g. alkali-free ZnO and 1 mole ZnSO<sub>4</sub>·7H<sub>2</sub>O are dissolved in 1000 ml. distd. H<sub>2</sub>O and shaken 1 hr. The pH of the product was 5.55 at 25°, and was as stable as the previous soln. The preps. should be shaken prior to use and allowed to stand 10 min., since the coarse suspended particles may cause deviations of some hundredth of a unit. I. P.

LENGYEL, B.: BOKSAY, Z.

Electric conductivity of glass. II. Conductivity of Li-Na, Na-K, K-Li mixed glass.  
p. 129. Vol 6, no. 1/2, 1955. KOZLEMENYEI. Budapest, Hungary.

So: Eastern Electric Accession. Vol 5, no. 4, April 1956

LÉNGYEL, B.; GARZO, T.

Chloromethylsilanes and the tension of their mixture. p. 274.  
MAGYAR KÉMIAI FOLYOIRAT. Budapest. Vol. 61, no. 9, Sept. 1955.

SOURCE: East European Accessions List (EEAL), LC, Vol. 5, No. 2, Feb. 1956



LENGYEL BELA

✓ Electric conductivity of glasses. II. Conductivity of lithium-sodium, sodium-potassium, and potassium-lithium mixed glasses. Béla Lengyel and Zoltán Bokszay (Eötvös Loránd Univ., Budapest). *Z. physik. Chem. (Leipzig)* 204, 157-64 (1955); cf. *C.A.* 48, 11120d. — The elec. cond. of Li-Na, Na-K, and K-Li mixed glasses was detd. experimentally as a function of the alkali ratio in the glasses and of the temp. The results conform well to the theory of the elec. cond. of mixed glasses given earlier (*loc. cit.*).  
Friedrich Epstein

①

LENGYEL, Bela

✓ Electrochemistry of glass. Bela Lengyel, Sándor Gál, 7  
 [10] 391-04 (1956).—Glasses that contain at least two alkalis  
 show a pronounced maximum of electrical resistance as a function  
 of the alkali ratio. This is explained by the migration of  
 the alkali ions which, under the action of the outer electric field,  
 enter into the open spaces in glass structure. A fairly complicated  
 formula for electrical conductivity was developed, which  
 was confirmed by tests made with silicate and other glasses.  
 4 figures, 13 references. M. H. A.

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LENGYEL, B.; TOROK, F.

LENGYEL, B.; TOROK, F. Equilibration of linear methyl polysyloxanes. P. 131.

Vol. 8, No. 1, 1956

KOZLEME NYEI

SCIENCE

Budapest, Hungary

So: East European Accession, Vol. 6, No. 2, Feb. 1957

Lengyel, B.

SILIKAT TECHNIK

Motls

Issue Nr 10, October, 1956, pp 391-394

1 PM

LENGYEL, B.:

Institute for gen. and anorg. Chem., Eotvos-Lorand University,  
Budapest, Hungary

Contribution to the Electrochemistry of Glass  
The electrochemical properties of glass<sup>6</sup> have already been the  
object of many studies. The author treats electric conductivity  
and ion emission of mixed glasses, and also the electromotric  
behaviour of glass surfaces in aqueous solutions.

D

PM

*L. ENGEL, B. H. A.*

*Kinetics and equilibrium of the equilibration reaction of linear methyl polysiloxanes. I. Béla Lengyel, András Prékopa, and Péter Lörk (Eötvös Loránd Univ., Budapest). Z. physik. Chem. (Leipzig) 206, 161-3(1956).— The equilibration reaction of linear methyl polysiloxanes was investigated theoretically and practically. The mol.-wt. distribution during the reaction and after equil. has been attained can be calcd. if it is assumed that the probability of cleavage and renewed formation of the Si-O bonds is independent of the place of the bond. Calcd. exptl. values for the mol.-wt. distribution agree well. P. E.*

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*P. H. Rabinowitz, D. E.*

value  $\lambda_0$  of  $A$ ; from the (normed) approximating eigen vectors  $f_n$  associated with  $\lambda_n$ , one can choose a subsequence converging strongly to an eigen vector of  $A$ . Furthermore, if any subsequence of the  $f_n$  converges to an eigenvector  $f$  of  $A$ , then the associated eigenvalue is  $\lambda_0$ . Similar results are valid for invariant subspaces associated with  $\lambda_0$  and

the  $\lambda_n$ , and for the operators  $P_n - \lambda_n P_n A$ . Applications are given to the study of the equation  $x - A(\lambda)x = f$ , where  $A(\lambda)$  is a completely continuous operator depending analytically on the parameter  $\lambda$ . More generally the equation  $Ax - B(\lambda)x = f$  is considered. *B. Gelbaum.*

*2/2*

*Smith*

LENGVEL, BELA

Methylation of silicon tetrachloride. Bela Lengyel and  
 Zoltan Székely (Eötvös Loránd Univ., Budapest). Z.  
 Székely, *Magy. Kem. 287, 273-81 (1958)*. The reaction of  
 $SiCl_4$  and  $Me_2AlCl$  (I) (an equimol. mixt. of  $MeAlCl_2$  and  
 $Me_2AlCl$ ) was investigated in an autoclave at  $250^\circ$  and  
 approx. 30-40 atm. I was prepd. in approx. 100% yield by  
 passing dry  $MeCl$  over chips of Al alloy contg. 5% Cu. The  
 reaction of  $SiCl_4$  and I was interrupted after various lengths  
 of time and the compn. of the reaction mixt. with respect to  
 Si and Me was determined. The Me/Si ratio varied from 1.53 to 1.00. Within  
 3 hrs. the Me groups of I are completely replaced by Cl and  
 combined to the Si. The products appear in the order  $SiMe_4$ ,  
 $Me_2SiCl_2$ ,  $MeSiCl_3$ , and  $Me_3SiCl$ . The concn. of  $SiMe_4$  goes  
 through a max. and then drops to zero. After exhaustion of  
 I, it acts as the alkylating agent. The concn. of  $Me_3SiCl$   
 also shows a max. with respect to time. The system ap-  
 proached an equil. in 23-4 hrs. with  $Me_2SiCl_2$  and  $MeSiCl_3$   
 as the chief products. The course of the reaction is ex-  
 plained on the basis of a theoretical consideration of the  
 mechanism. An azeotrope of  $Me_2SiCl_2$  and  $SiCl_4$  in ratio  
 0.5/0.5, b.  $54.2^\circ$ , was observed. B. P. M.

Clom

2

5

F

HUNGARY/Laboratory Equipment. Instrumentation

Abs Jour: Ref Zhur-Khim., No 24, 1958, 81416.

Author : Doksay Z., Csakvari D., Lengyel B.

Inst :  
 Title : Of Negative Errors Attained with Glass Electrodes.  
 I. Conditions Under Which Negative Errors Occur.

Orig Pub: Magyar tud. akad. ken. tud. oszt., 1957, No 2-3,  
 385-401.

Abstract: A formula for calculating potentials of glass  
 electrodes has been proposed. This formula accounts  
 for the film composition. It is assumed that in the elec-  
 trode processes only the protons play an active role.  
 In a film composed of gel, they are bound with water  
 molecules and with groups of silica glass (the, so-  
 called, proton acceptors). When the condition of the

Card : 1/2

Lengyel, B

~~USSR~~ <sup>HUNGARY</sup> /Chemistry of High Molecular Substances.

I

Abs Jour: Referat. Zhurnal Khimiya, No 21, 1958, 72845.

Author : B. Lengyel, A. Prekopa, P. Revesz, F. Torok.

Inst :

Title : Upon the Kinetics and the Equilibrium of the Equilibration Reaction of Linear Methylpolysiloxanes.

Orig Pub: Z. phys. Chem. (DDR), 1957, 208, No 1-2, 33-41.

Abstract: It is shown that the earlier derived equation (part 1, RZhKhim, 1957, 53965) for the distribution of linear methylpolysiloxanes according to the molecular weight in the process of attaining equilibrium can be generalized for the case of any bifunctional initial substances containing D units.

Card : 1/1

121



LENGYEL, PÉLA

71 15 7

Electric conductivity of glass. III. Conductivity of alkali borate mixed glasses. Péla Lengyel, Maria Somosi-Zoltán Bokszay (Eötvös Loránd Univ., Budapest, Hung.). *Z. Physik. Chem. (Leipzig)* 209, 15-21 (1958); cf. C.A. 50, 1399g. — The theory developed in parts I and II on the cond. of alkali mixed glasses is extended to borate glasses, glasses contg. 20 mole %  $X_2O$  and 80 mole %  $B_2O_3$  ( $X$  = alkali metal) being used. The exptl. results are compared with the theory and discussed theoretically. Friedrich Epstein

Jk

LENGyel, B.

Distr: 4E3d/4E2c(j)

/ Kinetics and equilibrium in the equilibration reaction of linear methyl polysiloxanes. / B. Lengyel and F. Torok (Eötvös Loránd Univ., Budapest, Hung.). *Z. Physik. Chem. (Leipzig)* 213, 289-97(1960).—The slope of the equilibration reaction of linear Me polysiloxanes was investigated, various acid and alk. catalysts being used. The activation consts. and the heats of activation were detd. In the presence of acids, the heat of activation is considerably diminished, compared with the noncatalyzed reaction. With alk. catalysts, the increase of the activation const. is responsible for the acceleration besides the alteration of the heat of activation. (*Magyar Tud. Akad. Kém. Tud. Osztályának Közleményei* 8, 131(1956); *CA* 52, 9731k). Friedrich Bpstein

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29 (NA)  
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pl

LENGYEL, Bela, a kémiai tudományok doktora (Budapest); TOROK Ferenc (Budapest)

Mechanism of the equilibration process of methylpolysiloxanes. Kem tud  
kozl MTA 13 no.3:285-293 '60. (EEAI 9:11)

1. Eotvos Lorand Tudományegyetem Általános és Szervetlen Kémiai  
Intézete, Budapest.  
(Chemical equilibrium) (Methylsiloxanes)  
(Polymers and polymerization)

LENGYEL, Bela, a kémiai tudományok doktora (Budapest); KSAKVARI, Bela,  
(Budapest); BOKSAY, Zoltan (Budapest)

The alkaline error of the glass electrode. I. Problem of the  
interpretation of the alkaline error. Kem tud kozl MTA 13 no.3:  
301-315 '60. (EEAI 9:11)

1. Eotvos Lorand Tudományegyetem Általános és Szervetlen Kémiai  
Intézete, Budapest.  
(Electrodes) (Glass)

LENGYEL, Bela, a kémiai tudományok doktora (Budapest); CSAKVARI, Bela  
(Budapest)

The alkaline error of the glass electrode. II. Effect of the glass  
composition on the alkaline error. Kem tud kozl MTA 14 no.1:55-61  
'60. (EEAI 9:12)

1. Eotvos Lorand Tudományegyetem Általános és Szervetlen Kémiai  
Intézete, Budapest.  
(Glass) (Electrodes)

LENGYEL, Bela, Prof., dr. (Budapest VIII, Muzeum korut 6-8); CSAKVARI, Bela  
(Budapest VIII, Muzeum korut 6-8); BOKSAY, Zoltan (Budapest VIII,  
Muzeum korut 6-8)

Data on the alkal error of the glass electrode. I. The problem of  
interpretation of the alkali error. Acta chimica Hung 25 no.2:225-  
242 '60. (EAI 10:4)

1. Institute of General and Inorganic Chemistry, L.Eotvos  
University, Budapest.

(Sodium) (Errors, Theory of) (Electrodes)  
(Ion exchange) (Cations) (Glass)

21718

H/005/61/000/002/001/002  
B124/B203

158116

2209, 1372

AUTHORS: Lengyel, Béla, Székely, Tamás, and Czuppon, Alfréd

TITLE: Hydrolysis and polycondensation of mixtures of methyl-chloro silanes of high functionality

PERIODICAL: Magyar Kémiai Folyóirat, no. 2, 1961, 82-85

TEXT: The functionality of polycondensates of organic chlorosilanes is determined by the chloride content of the chlorosilanes used as initial substances. There are many publications on polymers built up from bifunctional groups, their formation and physicochemical properties, whereas there are no published data on systems with much higher average functionality than two, and a C/Si ratio smaller than two; the latter are practically used under the name of silicone resins and silicone varnishes. The authors studied methyl siloxane systems formed in the first reaction phase with high average functionality. They looked for a quantitatively measurable property of the hydrolyzate, which depended on the parameters characterizing the hydrolysis, and thus permitted the determination of a relation between the conditions of hydrolysis and the

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Hydrolysis and polycondensation ...

properties of the product. Experience has shown that the result of hydrolysis, or of primary polycondensation, is mainly determined (1) by the average functionality of the system, (2) by the functionality difference of monomers, (3) by the pH of the hydrolyzing medium, type and concentration of dissolved cations, and (4) by the method of hydrolysis. It is known that the effect of average functionality does not only appear in siloxanes but also in other high polymers. The functionality, however, differs very much for various systems of monomers. Table 1 gives the gel formation capacity of hydrolyzates with a C/Si ratio = 1.3 obtained from  $(\text{CH}_3)_2\text{SiCl}_2$  (in the following D) and  $\text{CH}_3\text{SiCl}_3$  (in the following T) on the one hand, and from  $\text{SiCl}_4$  (in the following Q) and  $(\text{CH}_3)_2\text{SiCl}_2$ , on the other.

Gel formation capacity means the percent by weight of the part of the condensate insoluble in the organic solvent, which had passed from the sol to the gel state. The polydispersity of the system increases with the functionality difference of monomers. From the point of view of co-condensation, it is convenient to conduct hydrolysis with a small amount of water dissolved in the organic solvent since both the rate of hydrolysis and that of polycondensation drop in this case. When conducting the

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Hydrolysis and polycondensation ...

hydrolysis with pure, water-saturated butyl acetate at a dropping and mixing rate at which constant equilibrium is maintained, it was possible to obtain fully reproducible results. With rising pH and in the presence of magnesium ion, the polycondensation rate drops, and co-condensation is thus promoted. The diffusion constant was determined with an apparatus described in Ref. 2 (O. Lamm: Nova acta Reg. Soc. Sci. Upsala, 10, 6, 1937) and, since the  $\partial c/\partial x - x$  curves yielded no ideal Gauss curve (Fig. 1), the constant was calculated by the moment method described in Ref. 3 (N. Gralén: Kolloid Z., 95, 188, 1941) from the relation

$$M_2/(M_0 \cdot 2\beta^2 t) = 1/(c_1 - c_2) \int_{c_2}^{c_1} D dc = \bar{D}, \text{ where } M_0 \text{ is the zeroth moment, i.e.,}$$

the planimetrically determined area below the curve,  $t$  is the time in sec,  $c$  is the concentration (g/100 ml of solution), and  $\beta$  is a constant, in this case equal to  $10^2$ . The diffusion constant is a function of concentration. It rises noticeably (Table 2) in hydrolysis in a basic or buffered medium. Magnesium ions have a similar effect on hydrolysis as a rise in pH. In the concentration range of 5-8%,  $\bar{D}$  is practically independent of the

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Hydrolysis and polycondensation ...

initial concentration  $c_0$ , and the numerical difference of diffusion constants drops. For the further evaluation of experimental data, the Boltzmann method was used, the applicability of which was proven (Fig. 2). Some typical data are given in Table 3 and Fig. 3; they show that a rise in pH in the hydrolyzing medium always effects an increase in the diffusion constant referred to the same concentration, except for the concentration range with small  $D_c$ . Hence, it follows that the diffusion constant of the primary hydrolyzate rises with the pH and in the presence of certain cations such as  $Mg^{2+}$ . It is known, however, that the increase in the diffusion constant in solutions of equal concentration corresponds to a decrease in the mean molecular weight. The established shape of the diffusion curves with a minimum indicates that besides the osmosis factor also the hydrodynamic factor is of importance (Ref. 5: J. Rosenberg, and C. O. Beckmann: J. Ann. N. Y. Acad. Sci., 46, 209, 1945), which is due to the fact that the siloxane skeleton also contains silanol groups, the presence of which was also proven by several other authors. The decrease in the mean molecular weight of methyl-siloxane sols with rising

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Hydrolysis and polycondensation ...

pH in hydrolysis, as well as the drop in gel formation capacity in Q-D systems under otherwise equal conditions indicates a decrease in polydispersity corresponding to the increase in co-condensation. This paper was read at the IUPAC Symposium in Wiesbaden in 1959. There are 3 figures, 3 tables, and 5 non-Soviet-bloc references. The two references to English-language publications read as follows: J. P. Price, S. G. Martin, and J. P. Bianchi: J. Polym. Sci., 22, 41, 1956; J. Rosenberg, and C.O. Beckmann: J. Ann. N. Y. Acad. Sci., 46, 209, 1945.

ASSOCIATION: Budapest, Eötvös Loránd Tudományegyetem Általános és Szervetlen-Kémiai Intézete (Budapest, Loránd Eötvös University, Institute of General and Inorganic Chemistry), M. Tud. Akad. Műszaki Fizikai Kutató Intézet Mikromorfológiai Osztálya (Hungarian Academy of Sciences, Institute of Technical Physics, Department of Micromorphology)

SUBMITTED: May 10, 1960

Card 5/8 5

LENGYEL, Bela, kemiai tudományok doktora (Budapest); POKSAY, Zoltan, a kemiai tudományok kandidátusa (Budapest); GALLYAS, Ferenc (Budapest)

Electric conductivity of glass. IV. The effect of bivalent cation mixture on conductivity. Kem tud kozl MTA 15 no.1:35-44 '61.  
(EEAI 10:6)

1. Eotvos Lorand Tudományegyetem Általános és Szervetlen Kémiai Tanszéke, Budapest.  
(Electric conductivity) (Glass) (Cations)

I E N G Y E L, Bela

"Surface properties of silicat glasses" by Gyorgy Koranyi.  
Reviewed by Bela Iengyel. Magyar Nemzet 67 no.6:278 Jan '63.

15.8170

26897

H/005/61/000/010/001/002  
D239/D302

AUTHORS:

Gebhardt, István, Lengyel, Béla and Török, Ferenc

TITLE:

Catalyzed polymerization of octamethylcyclo-  
tetrasiloxane

PERIODICAL: Magyar kémiai folyóirat, <sup>67</sup> no. 10, 1961, 450 - 454

TEXT: The article deals with investigation of the polymerization process using a thermolyzing catalyst. The authors experimented with the polymerization of octamethylcyclotetrasiloxane with a tetramethylammonium silanolate catalyst carried out in N<sub>2</sub> stream free from CO<sub>2</sub> and H<sub>2</sub>O at 80 - 120°C, to obtain dimethyl polysiloxane. Experiments with octamethylcyclotetrasiloxane treated with HCl and N<sub>2</sub> and with unprepared octamethylcyclotetrasiloxane proved that the polymerization rate and the average molecular weight of the product are dependent primarily on the purity of the reacting substance. Results of experiments with four different samples, given in Table 1, show

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Catalyzed polymerization of...

that purified samples give a higher molecular weight in a shorter time than the unprepared samples. Another series of experiments with samples obtained from the distillation of purified octamethylcyclotetrasiloxane, revealed that the molecular weight of samples from the first and last fractions was lower than that of the main fractions. Data of this experiment are shown in Table 3, where the samples from the first fraction are marked 1 to 7, from the last fraction 35 and 36, and from the main fractions 7 - 34. The molecular weight of the polymerized product depends on the N to Si proportion of the mixture. The relation between the molecular weight and the N to Si is shown in Fig. 1; the dashed line represents the N to Si values computed by a method previously used in polymerization of octamethylcyclotetrasiloxane with potassium silanolate and described by F. Török and P. Gömöry (Ref. 6: Magy. Kém. Folyóirat, 66, 70, 1960). The authors suppose that the difference between the experimental and computed values is caused by functional

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Catalyzed polymerization of...

impurities. The molecular weight is also affected by decamethyltetrasiloxane. This property of decamethyltetrasiloxane makes it possible to obtain the required molecular weight which is of considerable significance in silicone rubber production. The influence of tetramethylammonium silanolate on the thermal stability of the products was examined by thermogravimetric analysis; data are shown in Fig. 3, in which the curves marked 18/3 and 20/3 represent samples polymerized with potassium silanolate, while the curve marked 95 represents a sample polymerized with tetramethylammonium silanolate. The authors express their appreciation to the management of the Nitrokémia Ipartelepek (Nitrokemia Chemical Works) which provided the raw material for the experiments and to Károly Almás, shop manager for his help with the experiments. There are 5 tables, 3 figures and 8 references: 2 Soviet-bloc and 6 non-Soviet-bloc. The references to the English-language publications read as follows: US Patent 2,490.357; US Patent 2,443.353; US Pa-

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Catalyzed polymerization of...

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tent 2,634.284; US Patent 2,789.109.

ASSOCIATION: Budapest, Eötvös Loránd Tudományegyetem Általános-  
és Szervetlen-Kémiai Tanszeke (General and In-  
organic Chemistry Department of the "Eötvös Lo-  
rand" University of Sciences, Budapest); Fűzfő-  
gyártelep, Nitrokémiai Ipartelepek Kutató Lab-  
oratoriuma (Research Laboratory of the "Nitro-  
kémia" Chemical Works, Fűzfőgyártelep)

SUBMITTED: April 5, 1961

Card 4/ 4

38623

S/081/62/000/009/011/075  
B158/B101

15.2640  
AUTHORS: Lengyel, B., Boksay, Z.

TITLE: The electrical conductivity of glasses. IV. Glasses with two different cations

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 9, 1962, 47, abstract 9B297 (Z. phys. Chem. (DDR), v. 217, nos. 5-6, 1961, 357-367)

TEXT: The electrical conductivity of glasses containing 16 mole% Na<sub>2</sub>O, 68 mole% SiO<sub>2</sub> and varying quantities of MgO, CaO, and BaO was investigated.

In all cases, the logarithm of resistivity was linearly dependent on the temperature reciprocal:  $\log \rho = \alpha/T - \beta$ . The logarithm of electrical conductivity at a fixed temperature increases non-linearly in measure with the substitution of Mg on Ca, Ca on Ba, and Ba on Mg. It reaches a maximum with a salient point at the Ba point, then falls again. The  $\alpha$  and  $\beta$  parameters also behave so. An empirical formula is suggested for

Card 1/2

LENGYEL, Bela; SZEKELY, Tamas; CZUPPON, Alfred

Hydrolysis and polycondensation of methylchlorosilane mixtures with high functionality. Magyar kem folyoir 67 no.2:82-85 F '62.

1. Budapesti Eotvos Lorand Tudomanyegyetem Altalanos es Szervetlen Kemiai Intezete es Magyar Tudomanyos Akademia Muszaki Fizikai Kutato Intezete Mikromorfologiai Osztalya.

GEBHARDT, Istvan; LENGYEL, Bela; TOROK, Ferenc

Synthesis of poly(dimethyl-siloxane)-diol. *Magy kem folyoir*  
68 no.4:159-161 Ap '62

1. Eotvos Lorand Tudomanyegyetem Altalanos es Szervetlen Kemiai  
Intezete, Budapest, es Nitrokemia Ipartelepek V., Balatonfuzfo.

ERDEY-GRUZ, Tibor, akadémikus; BRUCKNER, Gyozo, akadémikus; LENGYEL, Bela; TELEGDY-KOVATS, Laszlo, a tudományok doktora; HARDY, Gyula, kandidatus; GERECS, Arpad, akadémikus; FOLDI, Zoltan; WOLKOBBER, Zoltan; TUDOS, Ferenc, kandidatus; PURMAN, Jenő; KRAUSZ, Imre, kandidatus; ERDEY, Laszlo, akadémikus; SCHAY, Geza, akadémikus

An account of the 1961 work of the Section of Chemical Sciences, Hungarian Academy of Sciences. Kem tud kozl 18 no.3:343-394 162.

1. Magyar Tudományos Akadémia Kémiai Tudományok Osztályának titkara, és "A Magyar Tudományos Akadémia Kémiai Tudományok Osztályának Közleményei" szerkesztője (for Erdey-Gruz). 2. Akadémiai levelező tag (for Lengyel and Foldi). 3. "A Magyar Tudományos Akadémia Kémiai Tudományok Osztályának Közleményei" szerkesztő bizottsági tagja (for Bruckner, Erdey, Foldi, Gerecs, Hardy, Lengyel, Schay, Tudos).

LENGYEL, Bela

On the electricity transport in inorganic glasses. Kem tud  
kozl MTA 19 no.4:445-458. '63.

1. Eotvos Lorand Tudomanyegyetem Altalanos es Szervetlen Kemiai  
Tanszeke, Budapest, Szervetlen Kemiai Akademiai Kutato Csoport,  
Budapest; "A Magyar Tudomanyos Akademia Kemiai Tudomanyok  
Osztalyanak Kozlemenyei" szerkeszto bizottsagi tagja es  
Magyar Tudomanyos Akademia levelezo tagja.

LENGYEL, Bela, prof., dr. (Budapest, VIII., Muzeum korut 6-8);  
GARZO, Gabriella (Mrs) (Budapest, VIII., Muzeum korut 6-8);  
SZEKELY, Tamas (Budapest, VIII., Muzeum korut 6-8)

On some problems concerning the gas chromatographic analysis  
of methylchlorosilanes. Acta chimica Hung 37 no.1:37-51 '63.

1. Institute of General and Inorganic Chemistry, Lorand Eotvos  
University, Budapest. 2. Editorial board member, "Acta Chimica  
Academiae Scientiarum Hungaricae" (for Lengyel).

LENGYEL, Bela, prof., dr. (Budapest, VIII., Muzeum korut 6-8)  
CSAKVARI, Bela (Budapest, VIII., Muzeum korut 6-8)

On the direct synthesis of methyl chloro silanes. Pt.1.  
Acta chimica Hung 39 no.1:27-32 '63.

1. Institute of General and Inorganic Chemistry, L. Eotvos  
University, Budapest, and Research Group for Inorganic Chemistry  
of the Academy of Sciences, Budapest.

2. Editorial board member, "Acta Chimica Academiae Scientiarum  
Hungaricae" (for Lengyel).



LÉNGYEL, Bela, dr., egyetemi tanár; BRUCKNER, Gyozo, akadémikus, egyetemi tanár.

Whither is science going? Term tud kozl 5 no.7:316-318 JI '61.

1. Eotvos Lorand Tudományegyetem Általános és Szervetlen Kémiai Tanszékének vezetője (for Lengyel). 2. Eotvos Lorand Tudományegyetem Szerves Kémiai Intézetének igazgatója (for Bruckner).

ACC NR: AP6032675

SOURCE CODE: HU/0005/66/000/002/0085/0092

AUTHOR: Devay, Jozsef; Lengyel, Bela (Junior)

ORG: Department for Physical Chemistry, University for the Chemical Industry,  
Veszprem (Vegyipari Egyetem Fizikai-Kemial Tanszeke)

TITLE: Effect of alternating current on the corrosion of zinc in methyl alcoholic  
medium

SOURCE: Magyar kemiai folyoirat, no. 2, 1966, 85-92

TOPIC TAGS: corrosion, zinc, alternating current

ABSTRACT: It was shown that the zinc anode in a water-free methyl-alcoholic potassium chloride electrolyte, with a platinum-zinc cathode, corrodes in relation to the frequency and intensity of superimposed alternating current. The direct current characterizing the corrosion shows a minimum at about the middle of the frequency range, indicating also that this minimum increases with increasing alternating current density. The phenomena were described in detail and were interpreted in terms of a mechanism involving the periodic oxidation and reduction of the methyl alcohol solvent. Orig. art. has: 20 figures, 7 formulas and 1 table. [JPRS: 34,805]

SUB CODE: 07 / SUBM DATE: 18Jun65 / ORIG REF: 017 / OTH REF: 018

Card 1/1

0717 2855

L 45741-50

ACC NR: AT6033611

SOURCE CODE: HU/2502/65/043/002/0177/0185

AUTHOR: Lengyel, Bela--Lendel, B. (Doctor; Professor; Budapest); Csakvari, Bela--Chakvari, B. (Doctor; Professor; Budapest); Toperczer, Johanna--Topertser, Y. (Doctor; Budapest)

17  
B+

ORG: [Lengyel; Csakvari] Department of General and Inorganic Chemistry, Eotvos Lorand University, Budapest (Eotvos Lorand Tudomanyegyetem, Altalanos es Szervetlen Kemiai Tanszek); [Toperczer] Oncological Institute, Budapest (Onkologiai Intezet)

TITLE: Alkaline error of the glass electrodes. III. New data on the interpretation of the alkaline error

SOURCE: Academia scientiarum hungaricae. Acta chimica, v. 43, no. 2, 1965, 177-185

TOPIC TAGS: electrochemical analysis, glass electrode

ABSTRACT: The mole fraction of sodium ions present in the surface layer of the MacInnes-Dole glass was determined by the radiochemical tracer method (using <sup>24</sup>Na) and the results were compared with mole fractions calculated from measured values of electromotive force. The rather good agreement between the mole fractions can be considered as an experimental proof of the theory proposed by the authors for the quantitative interpretation of the alkaline error. Orig. art. has: 2 figures, 20 formulas and 1 table. [Based on authors' Eng. abst.] [JPRS: 33,546]

SUB CODE: 07, 09 / SUBM DATE: 24Nov64 / ORIG REF: 002 / OTH REF: 006

Card 1/1 *awm*

0420 1655

L 44608-66 EWP(j) RM

ACC NR: AT6033138

SOURCE CODE: HU/2502/65/044/004/0373/0383

AUTHOR: Lengyel, Bela--Lendel, B. (Doctor; Professor; Budapest); Halmos, Terez--  
Khalmosh, T. (Budapest); Szekely, Tamas--Sekey, T. (Doctor; Budapest)

28  
b1

ORG: Department of General and Inorganic Chemistry, Eotvos Lorand University,  
Budapest (Eotvos Lorand Tudomanyegyetem, Altalanos es Szervetlen Kemiai Tanszek),  
Research Group for Inorganic Chemistry, MTA, Budapest (MTA Szervetlen Kemiai  
Kutatorcsoport)

TITLE: Recent investigations of the hydrolysis and polycondensation of mixtures of  
methyl trichlorosilane and dimethyl dichlorosilane

SOURCE: Academia scientiarum hungaricae. Acta chimica, v. 44, no. 4, 1965, 373-383

TOPIC TAGS: hydrolysis, polycondensation, silane

ABSTRACT: Mixtures of methyl trichlorosilane and dimethyl dichlorosilane were subjected  
to hydrolysis under carefully adjusted experimental conditions. The correlation  
between the distribution of molecular weight in the primary hydrolysis product and  
the composition of the system to be hydrolyzed was established. Furthermore, the  
effect of the pH value, and of various cations and anions were also considered and  
conclusions were drawn as to the assumed mechanism of the hydrolysis-polycondensation  
process. Orig. art. has: 10 figures, 6 formulas and 1 table. [Based on authors'  
Eng. abst.] [JPRS: 33,540]

SUB CODE: 07 / SUBM DATE: 15Dec64 / ORIG REF: 001 / OTH REF: 010

Card 1/1 blg

0970 0692

L 45637-66 EWP(t)/ETI IJP(c) JD/WB

ACC NR: AT6033878

SOURCE CODE: HU/2502/65/046/004/0325/0344

AUTHOR: Devay, Jozsef--Devai, Y. (Professor; Doctor; Veszprem); Lengyel, Bela-- <sup>46</sup> Lend'yel, B. (Junior; Veszprem) <sup>B+</sup>

ORG: Department for Physical Chemistry, University for the Chemical Industry,  
Veszprem

TITLE: Effect of alternating current on the corrosion of zinc in a methanolic medium

SOURCE: Academia scientiarum hungaricae. Acta chimica, v. 46, no. 4, 1965, 325-344

TOPIC TAGS: corrosion, zinc, alternating current, electrolyte

ABSTRACT: The corrosion of the zinc electrode in a zinc-platinum galvanic element with anhydrous methanol electrolyte increased upon the superimposition of alternating current onto the direct current generated by the galvanic element. The extent of the increased corrosion was dependent on the voltage and the amperage of the alternating current, and also on its frequency. The frequency vs. corrosion increase effect shows a maximum at a relatively low frequency level. The electrolyte, being periodically reduced and oxidized, contributes to polarization phenomena.

Orig. art. has: 20 figures, 7 formulas and 1 table. [Orig. art. in German]  
[JPRS: 34,165]

SUB CODE: 07 / SUBM DATE: 20Jun65 / ORIG REF: 018 / OTH REF: 017

Card 1/1 *rw*

LÉNGYEL, Bertalan; PÁPAI, Dénes; FERNBACH, József

Use of the gonorrhoea cultivation method in the Szolnok County Clinic.  
Borogy. vener. szemle 13 no.2:91-94 Apr 59.

1. A Szolnok Megyei Bor-Nemibeteg gondozó Intézet (Vezető főorvos:  
Lengyel Bertalan dr.) és a Szolnok Megyei Közegészségügyi és Járvány-  
ügyi Allomás (Igazgató főorvos: Harczos György dr.) közleménye.

(GONORRHEA, diag.

culturing of *Neisseria gonorrhoeae* in county dermatol.  
& venerol. clinic in Hungary (Hun))

LENGYEL, Bertalan, dr.; RACZ, Istvan, dr.

On calcinosis of the skin with a case of local calcinosis. Borgyogy. vener. szemle 38 no.4:177-182 Ag '62.

1. A Szolnok megyei Guszman Jozsef Bor- es Nemibeteggonodo Intezet (vezeto foorvos: Lengyel Bertalan dr.) es a Fovarosi Bor- es Nemibeteggonodo Intezet (igazgato foorvos: Somogyi Zsigmond dr.) kozlemenye.

(SKIN dis) (CALCIFICATION case reports)

SZEGO, Laszlo, dr.; SZABO, Peter, dr.; CSERVENKA, Istvan, dr.; LENGYEL, Bertalan, dr.

Dermatitis of the genital area as an occupational disease of agricultural laborers stacking hay. Borgyogy. vener. szemle 38 no.5:206-214 O '62.

1. A Szabolcs-Szatmar-megyei Tanacs Korhaza Nyiregyhaza (igazgato: Lengyel Ferenc dr.) Borgyogyaszati Osztalyanak (foorvos: Szego Laszlo dr.) a Debreceni Borgyogyaszati Klinika (igazgato: Szodoray Lajos dr. egyetemi tanar) es a Jaszkun-Szolnok megyei Tanacs Bor- es Nemibeteggonodo Intezete (vezeto foorvos: Lengyel Bertalan dr.) kozlemenye.

(CALCIUM) (GENITALIA, MALE) (ANTIHISTAMINES) (AGRICULTURAL WORKERS DISEASES) (OCCUPATIONAL DERMATITIS)

LENGYEL, E.; RUSU, I.; VAIDA, A.

Morphofunctional aspect of the lymphatic intramural system of the large intestine; lymphatic periglandular spaces. p. 961

COMUNICARILE. Bucuresti, Rumania. Vol. 8, no. 9, Sept. 1958

Monthly list of European Accessions (EEAI) LC, Vol. 8, no. 8, Aug. 1959

Uncl.



OSILIAG, J.; LENGYEL, E.

Martincvics and medical science (Physiology textbook by Ignac  
Martinovics, published in St. Petersburg 175 years ago). Orv.  
hetil. 105 no.42:20002-20004 0 18 '64.

U	V	W	X	Y	Z	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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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	AA	AB	AC	AD	AE	

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

CR

8

The eruption of Etna in 1928 and its rock. E. LENGVEL. *Acta Lit. ac Sci. Univ. Hung. Francisco-Josephinae, Sect. Chem., Mineral. et Phys.* 1, 128 (1929); *Chem. Zentr.* 1930, II, 1854; cf. *C. A.* 25, 2048.—The lava of the eruption was thin liquid and accompanied by much  $\text{NH}_3$ , P and some S vapors. The rock is an olivine-basalt with porphyritic olivine, pyroxene, plagioclase and mainly labradorite. Ti is present as titanite and ilmenite. Magnetite forms small idiomorphic crystals. The rock contains much  $\text{Na}_2\text{O}$ ,  $\text{P}_2\text{O}_5$ ,  $\text{TiO}_2$ ,  $\text{Al}_2\text{O}_3$  and  $\text{MgO}$ . No clastic materials were found. A. HERZOG

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
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	AA	AB	AC	AD	AE	

1ST AND 2ND ORDERS

ALPHABETICAL INDEX

METALLURGICAL LITERATURE CLASSIFICATION

COMMON ELEMENTS		PROCESSES AND PROPERTIES INDEX		1ST AND 2ND GROUPS		3RD AND 4TH GROUPS																																																																																																			
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						
OPEN MATERIALS INDEX		AS B S L A METALLURGICAL LITERATURE CLASSIFICATION		ALUMINUM INDEX		1ST AND 2ND GROUPS		3RD AND 4TH GROUPS		5TH AND 6TH GROUPS		7TH AND 8TH GROUPS		9TH AND 10TH GROUPS		11TH AND 12TH GROUPS		13TH AND 14TH GROUPS		15TH AND 16TH GROUPS		17TH AND 18TH GROUPS		19TH AND 20TH GROUPS		21ST AND 22ND GROUPS		23RD AND 24TH GROUPS		25TH AND 26TH GROUPS		27TH AND 28TH GROUPS		29TH AND 30TH GROUPS		31ST AND 32ND GROUPS		33RD AND 34TH GROUPS		35TH AND 36TH GROUPS		37TH AND 38TH GROUPS		39TH AND 40TH GROUPS		41ST AND 42ND GROUPS		43RD AND 44TH GROUPS		45TH AND 46TH GROUPS		47TH AND 48TH GROUPS		49TH AND 50TH GROUPS		51ST AND 52ND GROUPS		53RD AND 54TH GROUPS		55TH AND 56TH GROUPS		57TH AND 58TH GROUPS		59TH AND 60TH GROUPS		61ST AND 62ND GROUPS		63RD AND 64TH GROUPS		65TH AND 66TH GROUPS		67TH AND 68TH GROUPS		69TH AND 70TH GROUPS		71ST AND 72ND GROUPS		73RD AND 74TH GROUPS		75TH AND 76TH GROUPS		77TH AND 78TH GROUPS		79TH AND 80TH GROUPS		81ST AND 82ND GROUPS		83RD AND 84TH GROUPS		85TH AND 86TH GROUPS		87TH AND 88TH GROUPS		89TH AND 90TH GROUPS		91ST AND 92ND GROUPS		93RD AND 94TH GROUPS		95TH AND 96TH GROUPS		97TH AND 98TH GROUPS		99TH AND 100TH GROUPS	

*ca*

Recent lava types of Etna. E. LANGYER. *Földtani Közlemények* 59, 26-34(1920). - Lava of the 1928 eruption of Etna is an extreme in lava types, being the most basic rock of all eruptions. It consists of an olivine labradorite basalt with significant content of nepheline.

S S DE FINAV

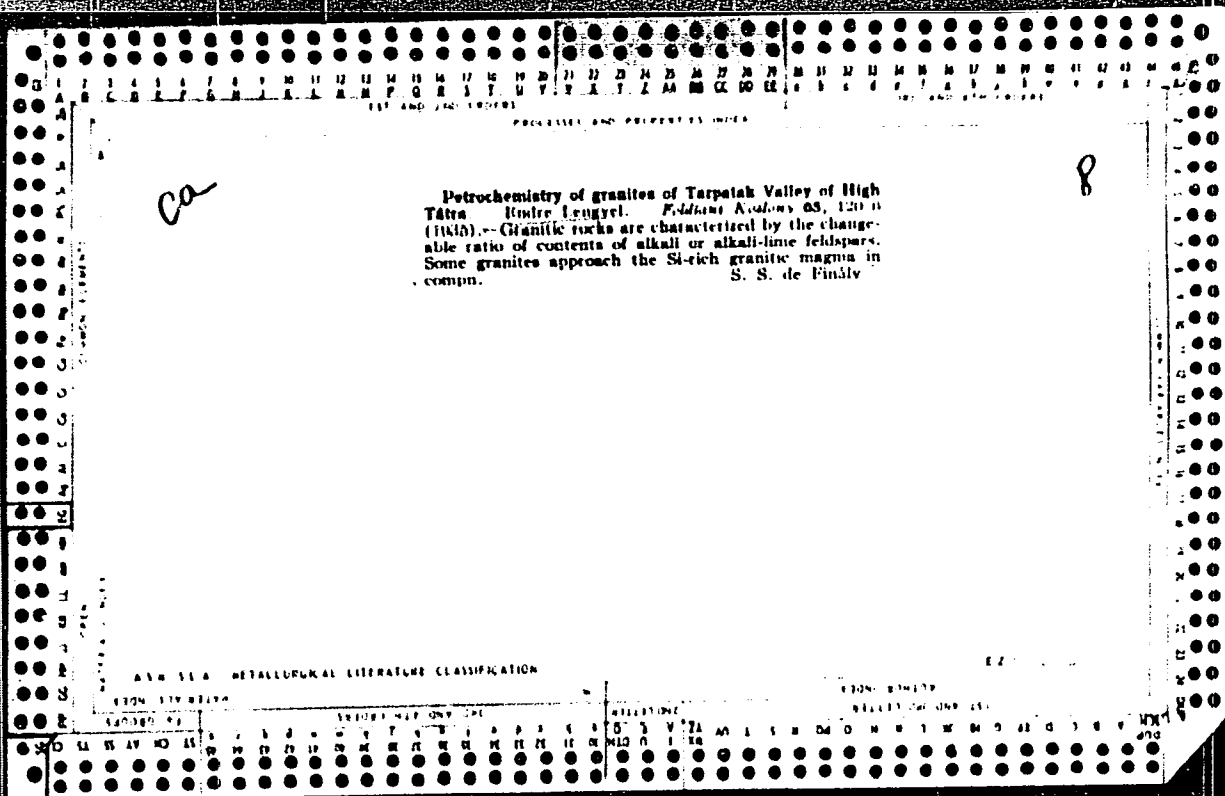
*8*

CA

Pyroxene andesite from Mount St. Vincent, Sárospatak.  
 János Lengyel. *Földtani Közlemények* 65, 30-7 (1965).  
 Analyses of pyroxene-andesite rocks gave:  $\text{SiO}_2$  58.18,  
 58.58, 60.88;  $\text{TiO}_2$  0.31, 0.37, 0.28;  $\text{Al}_2\text{O}_3$  10.61, 10.42,  
 18.04;  $\text{Fe}_2\text{O}_3$  1.25, 3.02, 2.95;  $\text{FeO}$  3.65, 3.55, 3.31,  
 $\text{MnO}$  0.04, 0.08, 0.02;  $\text{MgO}$  3.25, 3.85, 3.01;  $\text{CaO}$  7.49,  
 7.52, 5.82;  $\text{Na}_2\text{O}$  2.54, 4.18, 2.72;  $\text{K}_2\text{O}$  1.34, 0.66, 0.62;  
 $\text{H}_2\text{O} + 0.64$ , 0.97, 1.41;  $\text{H}_2\text{O} - 0.38$ , 0.21, 0.34;  $\text{P}_2\text{O}_5$   
 0.53, 0.12, 0.35;  $\text{CO}_2$  0.45, 0.16, 0.07, sums 99.96, 99.72,  
 100.67%. The Osann, Niggli and "American" classifica-  
 tions are given. S. S. de Fina

ASB-364 METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 07/12/2001



PROCESSES AND PROPERTIES INDEX

1ST AND 2ND GROUPS

Common Element

Common Variability Sites

CP

Varieties of jasper from the Tokay-Hegyallya Mts. E. v. Lengyel. *Földtan Közony* 66, 129-47(1936); *Neues Jahrb. Mineral., Geol.*, Ref. II, 1938, 351-2; cf. C. A. 31, 8447. The various varieties of jasper are the result of slow hydrothermal processes. The original silica gel slowly solidified through dehydration to variously colored forms of quartz, opal, chalcedony, chalcedony quartzine (the order in which they occur from inside outward in hollow spaces). They are classified according to the size of grain (0.3-30  $\mu$ ) and color (black, gray, red, brown and white according to the nature and amount of the metallic oxide present). C. A. Silbertad

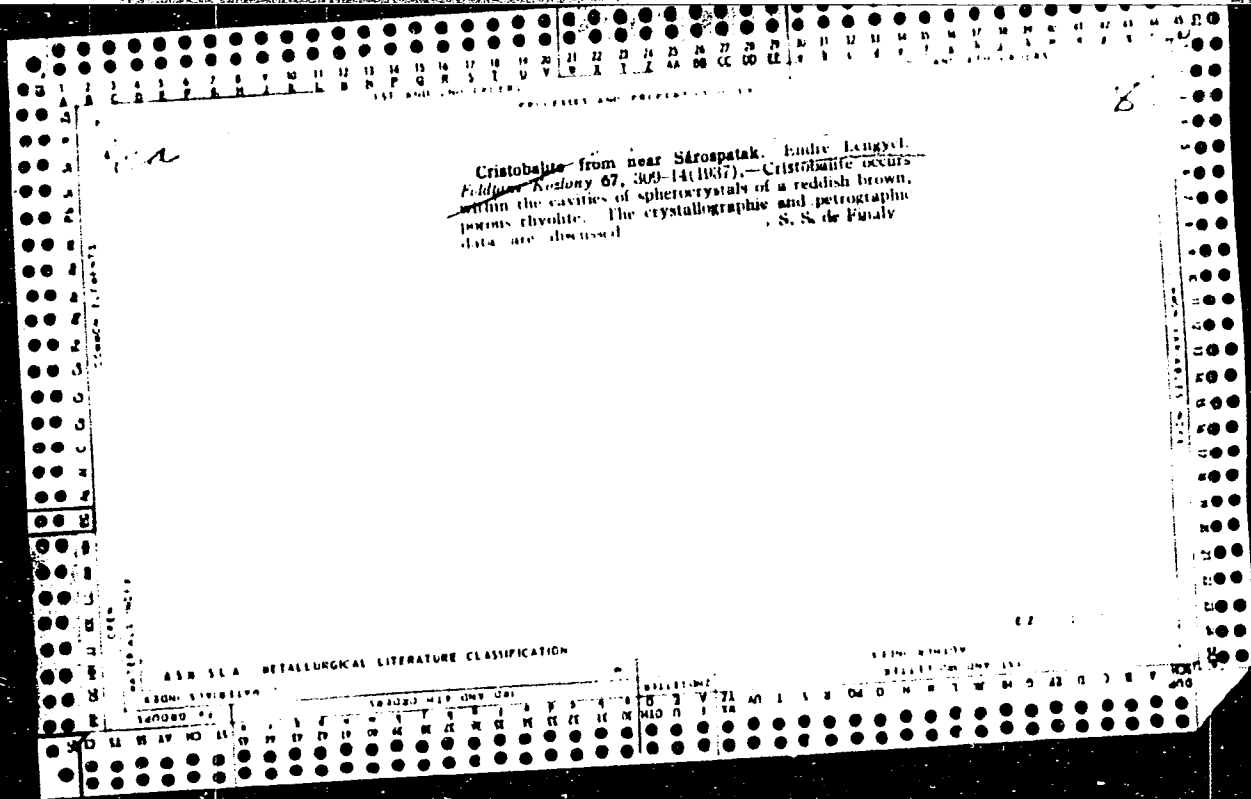
ASB-51A METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND GROUPS

Common Element

Common Variability Sites

CP



PROCESSES AND PROPERTIES

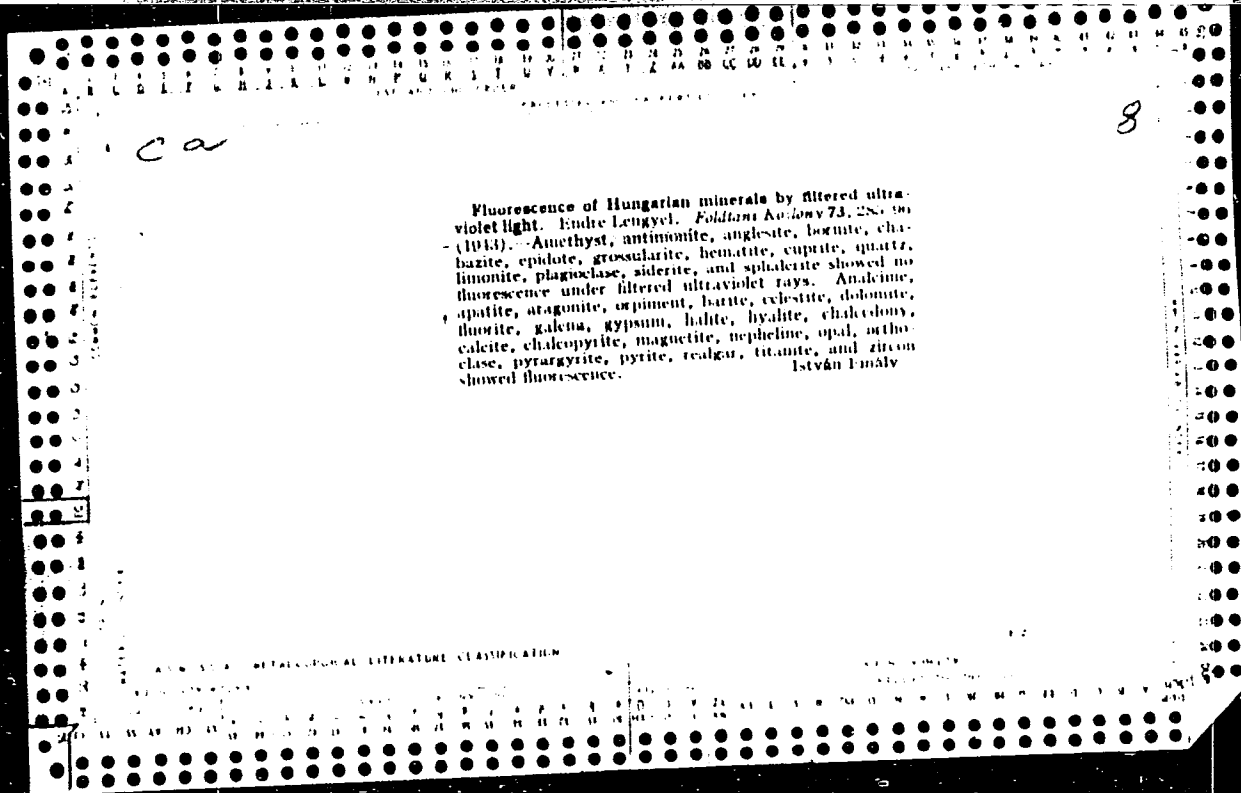
*Handwritten:* 10

**Cristobalite from near Sárospatak.** Erdős, Leugyel, Földián, Kozlony 67, 309-14 (1967).—Cristobalite occurs within the cavities of spherocrystals of a reddish brown, porous rhyolite. The crystallographic and petrographic data are discussed. S. S. de Fendy

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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LENGVEL, Endre

2

Chemical Abst.  
Vol. 48 No. 9  
May 10, 1954  
Mineralogical and  
Geological Chemistry

12/1954  
Structure of the andesitic volcanics of Dunazug Mountain.  
Endre Lengvel. *Magyar Allami Tört. Intézet, Évi Jelentés* 1951, 17-29 (Pub. 1953) (French summary).—Chem. analyses of 3 andesites are given: Michael Fleischer

LENGYEL, E.

"Traces of Manganic Ores in the Koszeg Mountains." p. 360, (FOLDTANI KOZLONY.  
BULLETIN OF THE HUNGARIAN BIOLOGICAL SOCIETY, Vol. 83, no. 10/12, Oct./Dec. 1953  
Budapest, Hungary)

SO: Monthly List of East European Accessions, LC, Vol. 3, No. 5, May 1954/Unclassified

Lengyel, Endre

/ Geology of the Nograd-Szokblya region, Börzsöny Mountains. Endre Lengyel. *Magyar Állami Földt. Intézet, Évi Jelentése 1954*, 105-20 (Pub. 1956) (French summary).—The Fe deposits (8 chem. analyses) were formed by the weathering of dacites and garnetiferous andesites.  
Michael Fleischer

*Lengyel*

LENGYEL, E.

Andesite in the environs of Kesztohc. p. 336

Vol. 85, no. 3, July/Sept. 1955

SOURCE: Monthly list of East European Accessions, (EEAL), Lc, Vol. 5,  
No. 3, March 1956

# LENGYEL, ENDRE

HUNGARY/Cosmochemistry. Geochemistry. Hydrochemistry.

D.

Abs Jour : Ref Zhur - Khimiya, No 11, 1958, 35767

Author : Lengyel Endre

Inst :

Title : Ferrous Formations of the Byorzhyon' Massif.

Orig Pub : Földt. közlöny, 1957, 87, No 2, 165-172

Abstract : The physical and chemical conditions of the formation of the brown iron-ore deposits of the Byorzhyon' Massif were investigated. A description is given of the geological structure of the region, of the conditions of stratification, and of the forms of the appearance of the ores. The ores were formed by means of erupted rocks (andesite, dacite). After the division of the limonite-hydrohematite-goethite ore during the course of past dehydration, there occurred a filling-up of fissures and cavities with mixtures of limonite, goethite, lepidocrocite, hematite, and siderite, with limonite predominating.

Card 1/2

7

HUNGARY/Cosmochemistry. Geochemistry. Hydrochemistry.

D.

Abs Jour : Ref Zhur - Khimiya, No 11, 1958, 35767

An important preliminary condition was the presence of a closed, drainless basin of the lagoon type, in the stagnant waters of which Fe ions accumulated in the presence of suitable absorbing or accumulating rock (sand, andesite tuff). Another favorable condition was a climate with a moderate amount of precipitation; abundant rainfall could have led to strong dilution of the basin's waters and to a decreased Fe content in them. The admission of thermal waters accelerated the separation of the silicate portion of the rocks, through the circulation of Fe and its accumulation along the crevices or on the surface. In every case, the accumulation of ores originated over impervious horizons (clay, compact andesite). Weathering played an important role in the enrichment of the ores.

Card 2/2

COUNTRY  
CAMEL

: Hungary

LENGYEL, E.

Geologic survey of the area of Sarospatak. p. 203.

A MAGYAR ALLAMI FODTANI INTEZET EVI JELENTESE. Budapest, Hungary, 1955/56 ( Published  
1959)

Monthly List of East European Accessions (EEAI) LC, Vol. 9, No. 2, Feb. 1960  
Uncl.

LENGYEL, E.

Geologic structure of the Tokaj Mountains in the area of Erkobenve-Tolcsva-Erdohorvati.  
p. 225.

A MAGYAR ALLAMI FOLYTANI INTÉZET ÉVI JELENTÉSE. Budapest, Hungary, 1955/56 (Published 1959)

Monthly List of East European Accessions (EEAI) LC, Vol. 9, No. 2, Feb1960

Uncl



LENGYEL, Endre, okleveles mernok

Remark about the article entitled "Construction of the most economical roadways in various regions of Hungary." Melyepitestud szemle 13 no.4:186 Ap '63.

1. Ut-Vasutervezo Vallalat irányito tervezoje.

KULIN, László, dr.; KOVÉR, Béla, dr.; LENGYEL, Ferenc, dr.; LUDMANY,  
Konrad, dr.; POLYA, Imre, dr.; SZEKELY, Katalin, dr.

Cyclic penicillin therapy of scarlet fever as a prophylaxis against  
complications due to superinfection. Orv hetil 95 no.17:449-453  
Ap '54. (REAL 3:8)

1. A Debreceni Orvostudományi Egyetem Gyermekklinikájának (igazgató:  
Kulin László dr. egyetemi tanár) közleménye.

(PENICILLIN, ther. use

\*scarlet fever, cyclic ther. in prev. of compl.

(SCARLET FEVER, ther.

\*penicillin, cyclic ther. in prev. of compl.)

GYONGYOSSY, Andor, dr.; LENGYEL, Ferenc, dr.

Infant care in the obstetrical ward of the district hospital at  
Nyiregyhaza, Hungary. Nepegeszsegügy 44 no.3:84-86 Mr '63.  
(INFANT CARE) (INFANT MORTALITY)  
(INFANT, NEWBORN, DISEASES)

LENGYEL, G.

H

ЭЛЕКТРОСХЕМЫ  
 ЭЛЕКТРИКАЛЫЙ РАДИОТЕХНИКА  
 №. 11--1951  
 №. 2, March

G. Lengyel:  
 Electrical network analyzer (From  
 the Russian)

ASB-56A METALLURGICAL LITERATURE CLASSIFICATION

LENGYEL, G.

A.

*Protection*

E 11

A

621.316.925.4 : 621.313.12  
1123. Earth fault protection of generators in  
resistance-earthed networks. G. Lengyel. *Elektr  
technika*, 44, 335-44 (Nov., 1951) *Russian*

On the basis of a theoretical analysis of the problem  
and experimental work, a relay consisting of a  
modified version of an electricity meter (a Ferraris  
instrument) was developed. It is suitable for pro-  
tection against short-circuits to earth of 70-80% of  
the windings of generators and also for selective  
protection against short-circuits to earth of smaller  
generators working in parallel on a resistance-earthed  
network of  $\approx$  10 MVA capacity. The paper covers  
the theoretical calculations and the experimental  
results obtained, giving numerical values and oscil-  
lograms of the operation of such relays. Further  
work is being carried out to increase the sensitivity  
and the range of application of these simple and  
robust relays. E. GROS

7 Mar 52

Lengyel, G.

1/2

47 The tasks and structural design of the Hungarian network analyzer -- A. Ignácz and G. Lengyel -- Supplements: Electronic Technology -- Elektronikus technológiák -- Gy. Égy. Dimensioning and calibration of iron-core reactors with air-gaps having linear characteristics -- Lineáris jellegetű lévélcses jórészteljesítők -- Elek. (Electrical Engineering) -- Elektrotechnika -- Vol. 47, 1954, No. 1, pp. 3-20, No. 2, pp. 50-55 and 57-61, 40 figs.

The establishment of the network analyzer designed by the Hungarian Institute for Electrical Power Research

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was necessitated by the large-scale development of the Hungarian power system. All the problems of mesh networks may be studied by means of the network analyzer, i.e., operating and limit conditions, balanced and unbalanced faults, as well as problems relating to steady-state and transient stability. The network analyzer is provided with adjustable elements, operates with steady-state source — according to calculations on economy published in the article — a higher frequency would mean only a negligible saving. This is due to the fact that the cost of transformer elements and capacitors is lower by about 20% at higher frequencies which is relatively small compared to the total expenses of the network analyzer, however, at 50 cps the construction and the measuring instruments are effected by electronic devices, the active power is measured by electronic instruments also developed by the Institute specially for this purpose. The determination of phase-angle is effected with a mechanical rectifier by a compensating method. All these measurements may be effected at any point of the network under means of multi-tap transformers. In the network analyzer there are 20 generator elements, 40 load elements, 80 elements, 6 autotransformers, 20 capacity elements, 20 electronic wattmeter, as well as the inductive reactors with air-gap and linear characteristics applied in the network analyzer.

45

LENGYEL, G.

Miklos Vajta's A zarlati aram (Short-Circuit Current); a book review. p. 286  
Vol. 49, No. 9 Sept. 1956. ELEKROTECHIKA. Budapest, Hungary.

SOURCE: East European List, (EEAL) Library of Congress Vol. 6, No. 1  
January 1956.



LENGYEL, GY

TECHNOLOGY

PERIODICAL: MERES ES AUTOMATIKA, Vol. 6, no. 7/8, 1958

Lengyel, Gy. Model of electronic boiler. p. 229.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 2,  
February 1959, Unclass.

LENGYEL, Gabor, konstruktor mester (HA 5 AR)

Antenna spinner, operating table for amateur stations.  
Radiotechnika 11 no.7:204-205 J1 '61.

LENGYEL, Gyorgy

Caterpillars ravaging our forests. Elet tud 17 no.24:749-750 17 Je '62.

1. Erdeszeti Tudomanyos Intezet munkatarsa.

LENGYEL, Gyorgy, tudományos munkatárs

Questions relating to the disease of black pine trees in Hungary. Erdo 13 no.3:126-131 Mr '64.

1. Scientific Institute of Forestry, Budakeszi.