

SOV/79-28-6-20/63
Investigation in the Field of the Synthesis of N-Alkylhexamethylene Diamine
Derivatives and Their Polycondensations. V. Some Problems Concerning the
Reaction Kinetics of the Reduction Alkylation of Hexamethylene Diamine

carry out the comparison with various alkylating compounds. The investigation of the reaction of the reduction alkylation of hexamethylene diamine with aldehydes and ketones at increased (100 - 50 atmospheres) as well as at normal atmospheric pressure showed that this reaction apparently is of suction character which is limited by the diffusion stage of the reaction component of solution and catalyst. It was shown that the reaction velocity does not depend on the concentration of the components and their conversion in the reaction process (Figs 1 - 5). On the other hand it also considerably depends on the structure of the alkylating aldehyde or ketone. It was found that the reactions of the reduction alkylation of hexamethylene at normal pressure and above 50 atmospheres absolute pressure are of zero-th order, and within the interval of from 10 to 40 atmospheres they are of first order; this fact can be explained by the incomplete suction saturation of the catalyst within this pressure interval. It was shown that the above mentioned reaction velocity is on the one hand dependent on the relative polari-

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Investigation in the Field of the Synthesis of N-Alkylhexamethylene Diamine
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SOV/79-28-6-20/63

ty of the alkylating compounds and on the other hand by the steric hindrances caused by the structure. The second factor plays a rôle only in the case of ramified carbonyl compounds. There are 8 figures, 3 tables, and 3 references, 2 of which are Soviet.

SUBMITTED: May 25, 1957

1. Alkyl derivatives--Synthesis reactions
2. Methyl hydrazines--Chemical

Card 3/3

VILSOVA, M.S.
KLEBANSKIY, A.L.; VILSOVA, M.S.

Synthesis and polycondensation of N-alkyl derivatives of hexamethylenediamine. Part 1: Synthesis of N,N'-dialkyl derivatives of hexamethylenediamine. Zhur. ob. khim. 28 no.4:1066-1072 Ap '58.
(Hexanediamine) (Alkylation) (MIRA 11:5)

VILESOVA, M.S.

KLEBANSKIY, A.L.; VILESOVA, M.S.

Synthesis and polycondensation of N-alkyl derivatives of hexamethylenediamine. Part 2: Synthesis of N-monoalkyl derivatives of hexamethylenediamine. Zhur. ob. khim. 28 no.4:1073-1075 Ap '58.
(Hexanediamine) (MIRA 11:5)

VILLOVA, M. G., and KLOBANUSKIY, A. A.

"Basic hexamethylenediamines and their polycondensation with acids,"
a paper presented at the 9th Congress on the Chemistry and Physics of High
Polymers, 29 Jan-2 Feb 57, Moscow, Moscow Polytechnic Inst.

B-3,084,395

VILESOV, N.G. [Viliesov, N.H.]; LEKAYE, V.M. [Lekae, V.M.]; KUZNETSOV, Yu.F.
[Kuznietsov, IU.P.]

Carbon disulfide content of sulfur dioxide and methane. Khim.prom.
[Ukr.] no.1:5-6 Ja-Mr '64. (MIRA 17:3)

VILESOV, Ye.N.; MAKSIMOV, Ye.V.

Nikolai Nikitich Pal'gov; on his 75th birthday. Izv. Vses. geog.
ob-va 95 no.5:463-465 S-O '63. (MIRA 16:12)

VILETA, Jaroslav, Inc.

Do we use tires economically? Slin. doprava 12.10.1961

1. Ministerstvo dopravy.

VILEYIS, A.

USSR/General Problems of Pathology. Metabolism

U-5

Abstr Jour : Ref Zhur - Biol., No 13, 1958, No 61090

Author : Vileysis A.

Inst : -

Title : The Effect of Diet on the Growth of Cancer

Orig Pub : Sveikatos apsauga, 1957, No 1, 42-46

Abstract : Mice (4270) 12 days before they were inoculated Ehrlich's carcinoma, and following inoculation, as long as they lived, were kept on varied diet. Determination was made of: positive inoculation, the length of the latent period, the vigor of the tumor's growth, the length of the mice's life, the weight of the tumors. It was observed that the growth of the tumor was retarded when the caloric intake was decreased, or when the diet was rich in vegetable proteins and fats, as well as in lecithin. The growth of the tumors was noticeably retarded when the mice were placed on an autoclaved diet with vitamin A added. An active growth of adenocarcinoma was observed when the mice were fed foods rich in animal fats, cholesteroline,

Card : 1/2

USSR/General Problems of Pathology. Metabolism

U-5

Abs Jour : R₆f Zhur - Biol., No 13, 1958, No 61090

carbohydrates, K_2CO_3 , $NaHCO_3$, KCl, vitamin B-1, B complex and alkaline foods.

Card : 2/2

38

VILEYSHIS, A.

Iashas, V. and Vileyshis, A. "Anaphylactic reaction during reduction with large cycle blood circulation," Trudy med. fak. Kaunassk. un-ta, Vol. 1, 1948, p. 101-103. In Lithuanian, Russian abstract

SO: U-2838, Letopis Zhurnal'nykh Statey, No. 1, 1949.

USSR/General Problems of Pathology - Tumors. Metabolism.

U.

Abs Jour : Ref Zhur - Biol., No 2, 1959, 8754

Author : Vileyshis, A.Yu.

Inst : Kaunas Medical Institute

Title : Alteration of the Malignancy Factor in Tumors under the Influence of Food.

Orig Pub : Tr. Kaunassk. med. in-ta, 1957, 4, 97-104

Abstract : After the intraperitoneal injection of 1000 Ehrlich ascites tumor cells into mice, no tumors develop in the mice; a much larger number of tumor cells is needed for the successful transplantation. If 1000 cells are injected in an acellular filtrate of this tumor, the incidence of successful "takes" amounts to 50%. If the tumor cells are taken from mice which have been given autoclaved food, the incidence of "takes" of the tumor decreases, and if

Card 1/2

- 25 -

USSR/General Problems of Pathology - Tumors. Metabolism.

U.

Abs Jour : Ref Zhur - Biol., No 2, 1959, 8754

the tumor material is taken from mice which have received NaHCO_3 in the food the incidence of "takes" is greater than in the control. The character of the diet of the recipient mice exerts a similar effect. The character of the diet exerts an effect on the tumor cells also and on the malignancy factor which may be isolated from them.
-- A.Ya. Sinay

Card 2/2

VILEYSHIS, Yu.Yu., Cand Tech Sci-- (diss) "Experimental
and theoretical study of the process of ^{the} drying ^{of} hay in
stacks in a wooded meadow zone." Mos, 1958, 16 p. with
graphs (Min of Agr USSR. Mos Inst of Mechanization and
Electrification of Agr. Chair of "Machines for the
Mechanization of Animal Husbandry") 130 copies (KL, 28-58, 105)

VILEZHINSKIY

APOSTOL, A.; TUKILA, I. [Toukila, I.]; DUMITRESKU, N. [Doumitreskou, N.];
SALDZHANU, A. [Saldjanou, A.]; VILEZHINSKIY, K. [Vileginsky, K.]
(Bucharest)

New data on pathogenesis of pulmonary tuberculoma in connection
with bronhoglandular tuberculosis [with summary in French].
Probl.tub. 35 no.5:95-100 '57. (MIRA 10:11)

(TUBERCULOSIS, PULMONARY, pathol.
pathogen. of tuberculoma in connection with
broncho-glandular tuberc.)

VILFAN, Bostjan, dipl. ing. el.

Choosing parameters for magnetic memory systems with linear
selection of magnetic cores. Automatika 5 no.2:122-127 '64.

1. Jozef Stefan Nuclear Institute, Ljubljana.

VILFAN, Marija

Problems of research are problems of society. *Automatika* 4
no.2:87-88 '63.

1. Clan Izvršnega odbora glavnega odbora SZDL Slovenije.

VILFAN, S.

The origin of the term opasilo. p. ²³⁶237.
(Slovenski Etnograf. Vol. 9, 1956, Yugoslavia)

SO: Monthly List of East European Accessions (EEAL) ^{LS}LS, Vol. 6, no. 7, July 1957, Uncl.

VIL'FLUSH, R. T.:

Vil'flush, R. T.: "An attempt to synthesize chemically and thermally stable glass and a study of its properties." Min Higher Education USSR. Belorussian Polytechnic Inst imeni I. V. Stalin. Minsk, 1956. (Dissertation for the Degree of Candidate in Technical Science)

SO: Knizhnaya letopis', No 27, 1956. Moscow. Pages 94-109; 111.

VIL'GA, M.A., inzh. (Odessa); NUDEL'MAN, Ya.L., doktor fiz.-matem. nauk,
prof. (Odessa)

Stability of rectilinear rods with elastic longitudinal connections.
Issl. po teor. sooruzh. no.13:183-187 '64.

(MIRA 18:2)

VILGELMI, Z., BRUNSH, R., DOMBROVSKIY TS.

"New Nuclear Reactions Produced by Fast Neutrons in Tin"
Byull. Polskoy Akad. Nauk. Otd. III, No 3-4, 1953, pp 101-104

Reactions $\text{Sn}^{118}(n,p)\text{In}^{118}$ and $\text{Sn}^{116}(n,p)\text{In}^{116}$ from irradiation by fast neutrons were studied. According to the nuclear shell model, the cross sections of such reactions should be below average. Authors compared their results with those of $\text{Fe}^{56}(n,p)\text{Mn}^{56}$ known from literature. The obtained cross sections were accurate within 20%. (RZhFiz, No 11, 1954)

SO: W-31187, 8 Mar 55

BOBROVSKI, Lekh [Bobrowski, Lech]; VIL'GEL'MI, Zdzislaw [Wilhelmi, Zdzislaw];
GURSKI, Eugenyush [Gorski, Eugeniusz]; MARTSINKOVSKI, Andzhey
[Marcinkowski, Andrzej]; SOLTAN, Andzhey [Soltan, Andrzej];
YASKULA, Maryan [Jaskula, Marian]

Lekh, the pressurized electrostatic accelerator. Nukleonika 8
no.1:1-28 '63.

1. Institut yadernikh issledovaniy, Varshava 9 i Varshavskiy
universitet, Varshava.

GRAFISTEYN, Andzhey [Griffstein, Andrez]; WILHELM, Zdzislaw [Wilhelmi, Zdzislaw]

The Agnieszka mechanism: a selector of resonant neutrons. Pt.1.
Nukleonika 8 no.11:715-726 '63

1. Institut yadernykh issledovaniy, Varshava-Sverk, i Kafedra
fiziki atomnogo yadra, universitet, Varshava.

PROCESSING AND PROPERTIES INDEX	
CA	23
Quantitative measurements and sampling of waste waters. V. N. Vulgimov. <i>Russkaya Prom.</i> 17, No. 4, 33-8(1939); <i>Chem. Zentr.</i> 1939, II, 2805 d. - Methods of sampling wastes from the cellulose paper industry for the purpose of control of the amt. of fiber lost in such wastes are described. W. A. Moore	
ASD-5.4 METALLURGICAL LITERATURE CLASSIFICATION	

VILGUS, Emil

Progressive design of tools for toothing in the Vitkovicke
zelezarny Klementa Gottwalda National Enterprise. Stroj vyr
ll no.7:334-337 '63.

1. Vitkovicke zelezarny Klementa Gottwalda, n.p., Ostrava.

VILGUS, Emil

A new type of hobbing machine for making worm gears with a great number of travels. Strojirenstvi 13 no.4:211 '63.

1. Vitkovicke zelezarny Klementa Gottwalda, n.p., Ostrava.

VILGUS, Miroslav, inz.

Sources of labor productivity growth in auxiliary services of metallurgic plants. Prace mzda 10 no.12:548-550 D '62.

1. Nova hut Klementa Gottwalda, Ostrava - Kuncice.

VILGUS, M.

Vilgus, M.; Otahal, V. Enriching cupola blast with additions of oxygen. p.292

SLAVARENSTVI. Vol. 2, No. 10, Oct. 1954. Prague.

SO: Monthly List of East European Accessions (EEAL) LC, Vol 5, No. 6, June 1956 Uncl.

MAREK, Frantisek, inz.; VILGUS, Miroslav, inz.; VOJTEK, Bohumil, inz.

Development of the organization of maintenance and repair service in metallurgic enterprises. Podnik organizace 16 no.11:493-496 N '62.

1. Nova hut Klementa Gottwalda, Ostrava-Kuncice.

VILGUS, MIROSLAV

3

4148* Oxygen Enriched Blast for Cupolas. Zkušenosti s
přidáváním kyslíku do kupplovny. (Czech.) Miroslav Vilgus
and Vlastislav Otáhal. Stěvarenski, v. 2, no. 10, 1984, pp.
292-298.

Efficiency of various degrees of enrichment; equipment and
techniques. Diagrams, tables, graphs: 3 ref.

mgw

VILGUS, MIROSLAV, inz.; MAREK, Frantisek, inz.

Labor productivity measurement in the metallurgic equipment
maintenance service. Prace mzda 11 no.4:187-188 Ap '63.

1. Nova hut Klementa Gottwalda, n.p., Ostrava - Kuncice.

VIL'GUSEVICH, I.P.

USSR/Soil Science - Physical and Chemical Properties of Soils.

J-2

Abs Jour : Ref Zhur - Biol., No 2, 1958, 5756

Author : Vil'gusevich, I.P.

Inst : Institute of Socialist Agriculture of the Academy of Sciences BSSR.

Title : The Volumetric Ammonian-Formaldehyde Method of Determining the Metabolic Absorption of Soils.

Orig Pub : Sb. nauchn. tr. In-t sots. s. kh. Akas Nauk BSSR, 1956, No 4, 137-142

Abstract : The method developed by the author consists in taking a quantity of soil with the carbonates removed, extracting the soil electrolytes by using distilled water, and measuring them. Using an 0.5 N. ammonium acetate solution the various exchange cations and the total absorbed bases are extracted and measured (in separate portions of

Card 1/2

VIL' GUSEVICH, I. P.

AC. ✓ The absorption and mobility of ammonia, potassium, and calcium in turf and sod-podzolic soils of White Russian (Byelorussian) S. S. R. I. P. Vil'gusevich. *Sbornik Nauch. Trudov. Inst. Sotsialist. Sel'khoz. Akad. Nauk Beloruss. S.S.R.* 1953, No. 2, 75-87; *Referat. Zhur., Biol.* 1953, No. 3200.—Lab. expts. were performed with 0.1-0.9N Cl^- salt solns. at pH 5.5-6.0. It was shown that the rate of interaction between the turf soil and solns. of NH_4 , P, and Ca salts is proportional to the cationic concn. of these salts. Well decomposed lowland turf soil has a far greater vol. and cationic absorption capacity than the mineral types of soils. Under some exptl. conditions of pH, type, and concns. of salt solns, the rate of cationic absorption for each of the soils tested depends upon the vol. exchange-capacity, physicochem. properties of the soil, the intensity of its cultivation and the degree of preexisting absorbed cations, NH_4^+ and K^+ , absorbed by the turf. Mineral type of soils are easily and largely eluted with H_2O and weak solns. of AcOH or HCl .
B. S. Levine

VIL'GUSEVICH, I.P., kandidat khimicheskikh nauk

Effect of peat on variations in the exchange capacity of soils.
Izv. AN BSSR no.1:103-115 Ja-P'55. (MLRA 8:10)
(Peat) (Soil physics)

BC

A1

**Cumulative analysis for sodium, without the use of hydrogen
catalysis. I. P. Vlasovskiy (*J. Appl. Chem., Russ.*, 1960,
18, 1747—1766).—An analytical procedure is proposed.
K. T.**

ASB-1LA METALLURGICAL LITERATURE CLASSIFICATION

SODIUM DIVISION

SECTION MAP ONLY ONE

UNCLASSIFIED

SECTION ONE ONLY 151

VILICIC, Davorka, inz.; GAMS, Marta, inz.; FILAJDIC, Mirko, dr inz.

Determination of copper, iron, and phosphorus in the soybean oil,
and influence of various technological processes on their quantity.
Kem ind 12 no.3:136-140 Mr '63.

1. Laboratorij za analizu zivotnih namirnica, Biotehnoski
odjel, Tehnoski fakultet, Zagreb. 2. Clan Redakcionog odbora,
"Kemija u industriji" (for Filajdic).

GRAFFSHTERN, Andrey [Graffstern, Andrey]; Wilhelm, Zdzislaw
[Wilhelm Zdzislaw]

The Agni szka mechanical selector of resonance neutrons, Pt.2.
Juklenika 8 no.12:787-822 '63

1. Institut Yadernykh Issledovaniy, Var'sha-Sverk, i Kafedra fi-
ziki atomnogo yadra, universitet, Var'sha.

BARANOVA, N.M.; BASS, Yu.B.; BOGDANOVICH, V.V.; VIL'GOS, Ye.F.;
 GRAZHDANTSEV, I.I.; GRYAZNOV, V.I.; GUTOLOVA, Ye.D.;
 KABRIZON, V.M.; KOLYAVKO, G.I.; MOROKHOVSKAYA, M.S.;
 NOSOVSKIY, M.F.; ROMODANOVA, M.P.; SOSNOV, A.A.;
 SHEVCHENKO, Ye.S.; USENKO, I.S.; Prinimali uchastiye:
 BONDAR', A.G., inzh.-gidrogeolog; SACHENKO-SAKUN, V.M.,
 st. topograf; SHELUKHINA, A.V., st. tekhnik-geolog;
 STOPIK, M.A., st. tekhnik-geolog; RYUTOVSKAYA, E.A.,
 tekhnik; BETEKHTIN, A.G., akademik, glav. red. [deceased]

[Nikopol' manganese-ore basin] Nikopol'skii margantsevo-
 rudnyi bassein. Moskva, Izd-vo "Nedra," 1964. 534 p.
 (MIRA 17:6)

1. Institut geologicheskikh nauk AN Ukr.SSR (for Baranova, Molyavko, Romodanova, Usenko).
2. Nauchno-issledovatel'skiy institut geologii Dnepropetrovskogo gosudarstvennogo universiteta (for Gryaznov, Nosovskiy).
3. Trest "Dneprogeologiya" (for Bogdanovich, Kabrizon).
4. Trest "Kiyevgeologiya" (for Bass).
5. Trest "Nikopol'-Marganets" (for Vil'gos, Grazhdantsev, Sosnov).

VILHELM, V.

Curves in Minkowski space.

p. 283 (CASOPIS PRO PESTOVANI MATEMATIKY) Vol. 82, no. 3, July 1957,
Praha, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 3,
March 1958

VILHELM, V.

Karel Rychlik's Uvod do analyticke theorie mnohoclenu s realnymi koeficienty
(Introduction to the Analytic Theory of Polynomials with Real Coefficients);
a book review.

p. 370 (CASOPIS PRO PESTOVANI MATEMATIKY) Vol. 82, no. 3, July 1957,
Praha, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 3,
March 1958

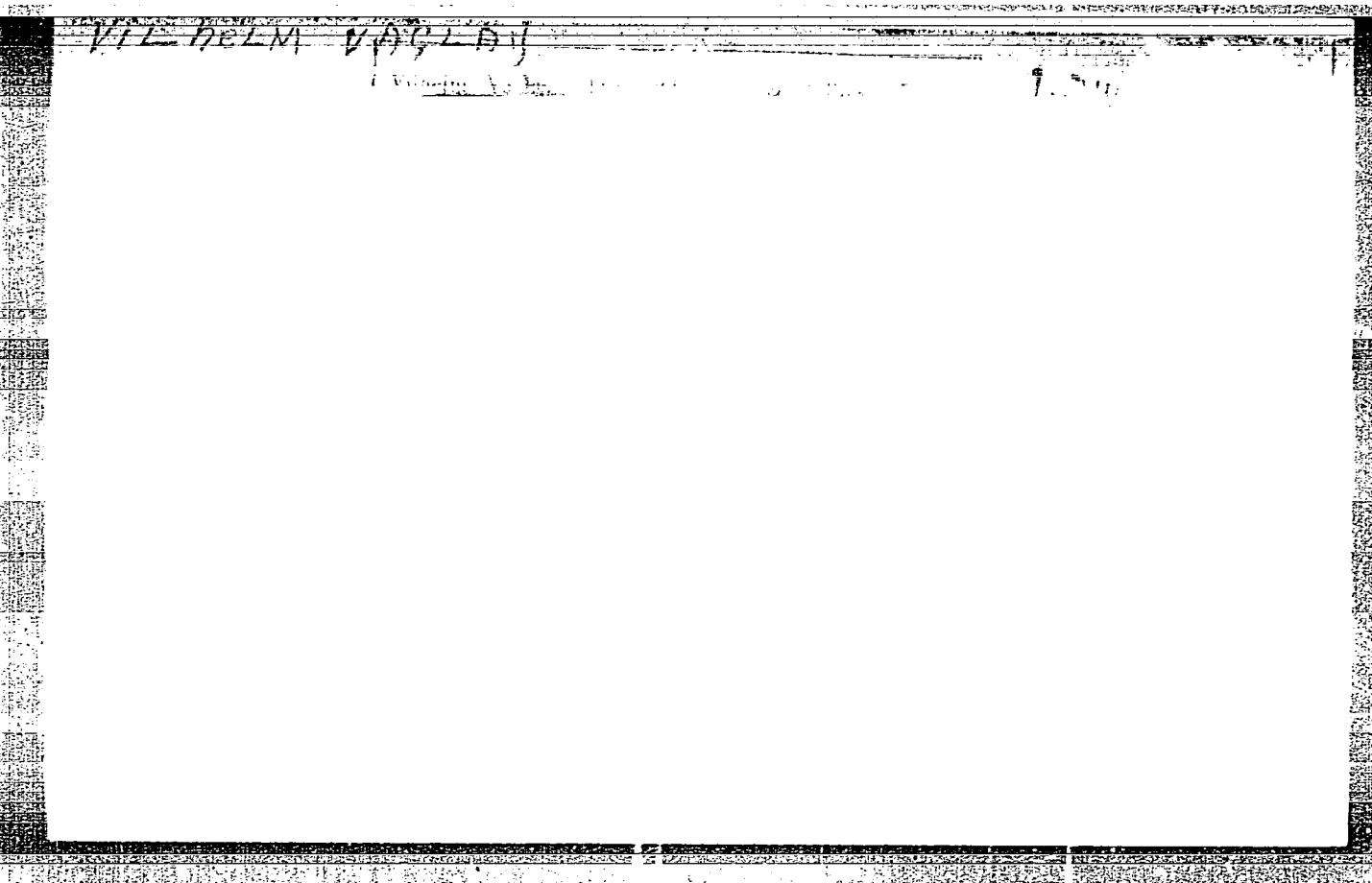
VIL'GELM, Vatslav [Vilhelm, Vuclav] (Praha 2, Na Bojisti 3)

A remark on complete lattices represented by sets. Cas pro
pos mat 87 no.1:76-80 '62.

1. Ceske vysoke uceni technicke.

"APPROVED FOR RELEASE: 09/01/2001

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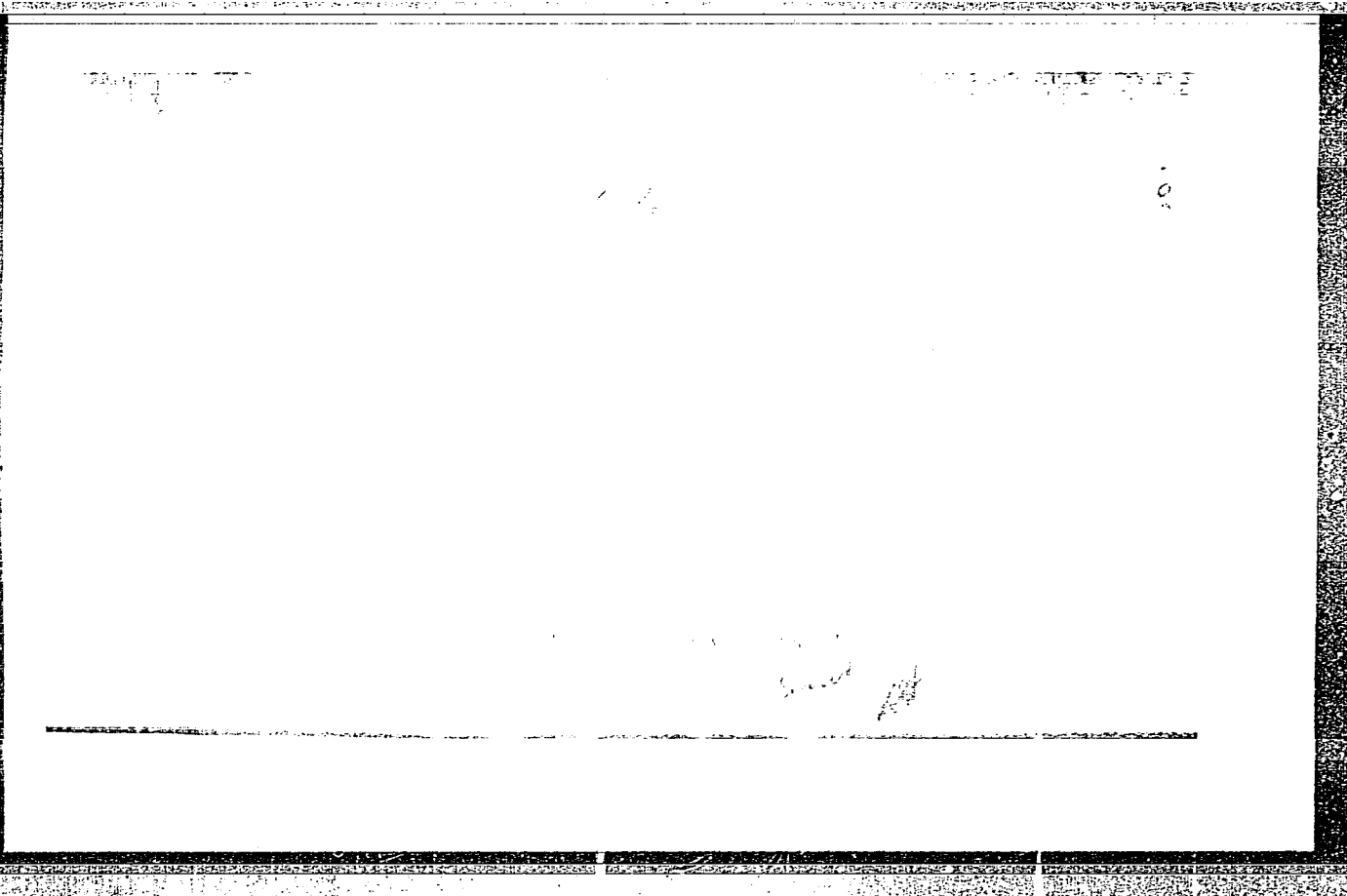
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VILHELM, Vaclav (Praha)

Jordan - Hölder theorem in lattices without finite chain condition
[with summary in English]. Chekh.mat.shur. 4 no.1:29-49 Mr '54. (MLRA 7:6)
(Lattice theory)

VILHELM, Vaclav

(2)

Vilhelm, Václav, and Vitner, Čestmír. Continuity in metric spaces. *Casopis Pěst. Mat.* 77, 147-173 (1952). (Czech)
 This is a partly expository article. A novelty is the introduction of Cauchy continuity: a mapping f of a metric space X with metric ρ onto a metric space Y with metric σ is said to be Cauchy continuous if $\{f(x_n)\}_{n=1}^{\infty}$ is a Cauchy sequence in Y whenever $\{x_n\}_{n=1}^{\infty}$ is a Cauchy sequence in X . It is noted that uniform continuity implies Cauchy continuity which implies continuity. A large number of theorems are proved, of which the following may be taken as typical. The mapping f is uniformly continuous if and only if the conditions $A, B \subset X$ and $\rho(A, B) = 0$ imply $\sigma[f(A), f(B)] = 0$. Elegant proofs are given, for metric spaces, of Urysohn's lemma and Urysohn's extension theorem. It is shown that Cauchy continuity and uniform continuity can be preserved in applying Urysohn's extension theorem. *E. Hewitt.*

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PROCESSES AND PROPERTIES INDEX

BC

B-7-6

Comparative study of various electro-galvanizing solutions and the properties of the zinc coatings obtained. N. P. LARIN, E. T. VILAMOVICH, and M. V. DMITRIYEV (Trans. State Inst. Appl. Chem. U.S.S.R., 1954, No. 21, 84-87).—Samples with the following baths are compared: (I) $ZnSO_4 \cdot 7H_2O$ (I) 200 g., $Na_2SO_4 \cdot 10H_2O$ (II) 70 g., potash alum (III) 30 g., H_2O 1 litre; (2) (I) 2, H_2SO_4 1 (II) 1-5%, (III) 2, $Na_2SO_4 \cdot 10H_2O$ 0-1; (3) (I) 360 g., NH_4Cl 30 g., $NaOAc \cdot 3H_2O$ 120 g., H_2O 1 litre; (4) ZnO 45 g., $NaCN$ 75 g., $NaOH$ 15 g., H_2O 1 litre; (5) (I) 200 g., $MgSO_4 \cdot 7H_2O$ 45 g., H_2SO_4 45 g., H_2O 1 litre, + a little squaric-root extract. Optimum results were obtained with (4) or (5) on a sample with a Zn undercoat from a cyanide bath. Ch. Ans. (c)

ASB-11A METALLURGICAL LITERATURE CLASSIFICATION

FROM SYRILIA

RIGHTS DIVISION

117 APR 1964

VILIAMOVITSCH, E.

A. O. SKIRSTIMONSKI, Trans. State Inst. Appl. Chem. USSR, 1934, No. 19, 86-95

1ST AND 2ND COPIES

3RD AND 4TH COPIES

COMMON ELEMENTS

COMMON VARIANTS

ASB-51A METALLURGICAL LITERATURE CLASSIFICATION

1975/12/15/1975

[illegible]

FILAJDIC, Mirko, dr, d pl. inz. kem.; VILICIC, Dayorka, dipl. inz. kem.;
EKART, Nada, tehnicar

Selection of the most suitable method for determining nickel
in hydrogenated lipid food. Kem ind 13 no.2:423-424 1974.

1. Faculty of Technology, Biotechnological Section, Zagreb.

Category : USSR/Optics - Physical optics

K-5

Abs Jour : Ref Zhur - Fizika, No 1, 1957, No 2343

Author : Yakovlev, I.A., Vilichkina, T.S., Mikheyeva, I.F.

Inst : Moscow State University, USSR

Title : Opalescence Phenomenon upon Phase Transformation in Quartz

Orig Pub : Dokl. AN SSSR, 1956, 107, No 5, 675-677

Abstract : The temperature dependence of the intensity of molecular scattering of light in quartz was studied in the 15--500° interval. A beam of light from an Hg lamp propagated along one of the axis of a crystal located in an oven. The vertical temperature gradient did not exceed 0.01 degree/mm, and the horizontal gradient along the light beam was 0.03 deg/mm. The cycle 15° → 600° → 15° lasted 72 hours. Near the $\alpha \rightleftharpoons \beta$ phase-transition point (573°) the temperature changed at a rate of approximately 0.3 degree per hour. On the curve $I_T/I_{20} = f(t)$, where I is the intensity of the scattered polarized light, there is a linear section in the 15--500° interval, with a sharp λ -shaped maximum at the phase transition temperature. In addition, when one of the end faces of the crystal reaches the phase-transformation temperature, there occurs at that end face a band of optical inhomogeneity, which scatters light strongly (approximately 1.4×10^4 more than at 20°), and which is similar to the fog band, and which

Card : 1/2

Category : USSR/Optics - Physical optics

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Abs Jour : Ref Zhur - Fizika, No 2, 1957, No 2343

shifts toward the other end with rising temperature. This band, 1--3 mm thick, cuts all the transverse sections of the crystal and is surrounded on both sides with transparent portions of the crystal, corresponding to the α and β phases. An investigation of the dependence of I on λ shown that the dimensions of the optical irregularities are less than λ (the $1/\lambda^4$ law holds). All the phenomena are reversible and can be reproduced many times.

Card : 2/2

VILICIC, A.

More on the classification of tunny fishing boats. p. 201. MORSKO
RIBARSTVO. (Udruzenje morskog ribarstva Jugoslavije) Rijeka.
Vol. 7, No. 8, Aug. 1955.

SOURCE: East European Accessions List, (EEAL) Library of Congress,
Vol. 5, No. 8, Aug. 1956.

VILICIC, A.

Are ships the cause of poor fishing? p. 56. MORSKO RIBARSTVO. (Udruzenje morskog ribarstva Jugoslavije) Rijeka. Vol, 8, no. 2, Feb. 1956.

SOURCE:

East European Accessions List, (EEAL),
Library of Congress Vol. 5, no.11, Nov., 1956.

VILICIC, A.

VILICIC, A. The economic aspect of trawling. p. 203.

Vol. 8, No. 7, July 1956.

MORSKO RIBARSTVO

AGRICULTURE

Rijeka, Yugoslavia

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

ILICIC, A.

Tuna fishing in 1954. p. 11.

MORSKO RIBARSTVO, Rijeka, Vol. 7, no. 3, Mar. 1955.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, no. 10, Oct. 1955,
Uncl.

VILICIC, A.

Tunny fishing in the Adriatic Sea; our tunny fisheries in 1953. p. 5.
GLASNIK, Vol. 6, no. 1/2, 1954, Beograd, Yugoslavia)

CO: Monthly list of East European Accessions, (SEAL), L., Vol. 4, No. 1
Jan. 1955, Uncl.

VILICIC, A.

"Tuna fishing in the adriatic Sea; this year's season", p. 1 (Morsko Ribarstvo,
Vol. 5, no. 1/2, 1953, Zagreb)

SO: Monthly List of ~~Russian~~ Accessions, East European Vol. 2, No 9, September 1953, Uncl.

FILAJDIC, Mirko. dr. ing. (Zagreb); VILICIC, Davorka, ing. (Zagreb); STAHAN-
Adamovic, Vlasta. (Zagreb)

Organoleptic evaluation of lipide foodstuffs. Kem ind 11 no.1:3-11 Ja '62.

1. Zavod za poznavanje i analizu zivotnih namirnica Tehnoloskog
fakulteta Sveucilista u Zagrebu, Zagreb.
2. Clan Redakcionog odbora, "Kemija u industriji" (for Filajdic).

F.A.

S.

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ofth. 11 no.4-5:312-322 1955

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Primar MUDr J.Velicky

(EYE, diseases

inflamm., intraocular, chronic, recur., eff. of
weather changes)

(CLIMATE

weather changes, eff. on recur. of chronic intraocular
inflamm.)

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part of the European territory of the U.S.S.R. Trudy TSIP no. 54:
78-99 '57. (MIRA 10:8)
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AD-514 METALLURGICAL LITERATURE CLASSIFICATION

PROCESSES AND PROPERTIES																										TEST AND MEASUREMENTS																									
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COMMON ELEMENTS OPEN MATERIALS NOTE 16 Production conditions and composition of vinasses of agricultural distilleries in Czechoslovakia. Václav Vili- kovský. <i>Chimie & industrie</i> Special No., 1196-D (June, 1957). - The compn. of the vinasses from 36 distilleries working with potatoes, corn, and potatoes with molasses is given and discussed from the standpoint of the condi- tions affecting the compn. of the vinasses. A. P.-C. 16																																																			
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portrait and list of publications.

O. G.
O. G.

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VILIKAYNEN, M.I.

Fruiting of pine in northern Karelia. Trudy Kar.fil. AN
SSSR no.16:5-18 '59. (MIRA 13:4)
(Karelia--Pine)

K-4

USSR/Forestry - Forest Management.

Abs Jour : Ref Zhur - Biol., No 5, 1958, 20135

Author : Kishchenko, T.F., Vilikaynen, M.I.

Inst : -

Title : Seed Sources for Clearings in Spruce Forests.

Orig Pub : Tr. Karel'sk. fil. AN SSSR, 1957, vyp. 7, 69-96

Abstract : In connection with the necessity of raising the effectiveness of the seed sources the various types of seed sources were investigated in 1951-1954 in the Derevyansk and Vidansk woods of the Petrozavodsk timber tract. It was established that with dense concentrations of fellings in spruce woods it is practical to set aside snow protection seeding strips not less than 15 meters in width along the sides of the main lines and branches of the lumber hauling railroads. It is admissible to have between the logging railroads seeding strips with an area of 0.2 hectares, with spruce communities on hilly relief, and contour

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USSR/Forestry - Forest Management.

K-4

▼ Abs Jour : Ref Zhur - Biol., No 5, 1958, 20135

stripping on flat relief. The principles of tree selection
and the techniques of allotment are described.

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- 37 -

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(Karelia--Spruce) (Forest ecology)

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Karelii i ikh prirodnoe raionirovanie. Petrozavodsk, Gos. izd-
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10(4)

PHASE I BOOK EXPLOITATION. SOV/3154

Viliker, David Semenovich

Laboratornyy praktikum po gidromekhanike (Laboratory Course in Hydro-mechanics) Moscow, Fizmatgiz, 1959. 351 p. 8,000 copies printed.

Ed.: Ye.Z. Rabinovich; Tech. Ed.: N.Ya. Murashova.

PURPOSE: This textbook is intended for post graduate students specializing in hydromechanics and studying pertinent laboratory procedures.

COVERAGE: An attempt is made to review fundamental laws, principles and general equations of physics applicable to hydromechanics the concepts of density, gravity, viscosity, pressure, velocity are explained and methods used for their determination in fluids with the aid of different measuring devices and calculations are illustrated by a number of examples. Hydrostatic problems and different aspects of fluid flow in circular and non-circular pipes and in their various sections are discussed along with hydromechanic equations and methods used for determination of velocity distribution in fluids, shock wave propagation, loss of pressure, etc. Flow of liquid from an orifice, the structure of the outflowing jet, its

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range, altitude, and discharge rate are also discussed along with different types of weirs, the flow of liquid over a weir, the flow of liquid in open channels, and the effect of the bottom slope and wall roughness of the channel on flow characteristics. The author also surveys the filtration of liquids and gases in a porous medium and presents equations and formulas applicable to subsurface flow of fluids in formations consisting of fine or coarse grain sand. The author also analyzes hydromechanical laws governing the movement of bodies of various shapes in a water stream. In this connection he also analyzes the electrohydrodynamic analogy. The test described 96 assignments which students specializing in the laboratory work must fulfill. Each assignment consists in a description of the laboratory unit necessary for the respective laboratory test, the problem example, and the method applied to solve the problem. No personalities are mentioned. There are 13 Soviet references.

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Al'perovich) Vinnitskogo meditsinskogo instituta i Vinnitskiy
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