

ALBEGOV, Nikolay Aleksandrovich; USPENSKIY, Viktor Konstantinovich;
FOKIN, Mikhail Dmitriyevich; YASENTSEV, Viktor Filippovich;
SARANTSEV, Yu.S., inzh., red.

[Electropneumatic brakes] Elektropnevmaticheskie tormoza.
Izd.3., perer. i dop. [By] N.A.Albegov i dr. Moskva, Izd-
vo "Transport," 1964. 194 p. (MIRA 17:6)

ALBEGOVA, N.K.

35588 ALBEGOVA, N.K. Analiz mertvorozhdeniy po akusherskoy klinike meditsinskogo instituta servero-osetinskoy assr za 1947 i 1948 gody. Trudy sev.-oset. Gos. Med. In-ta, Vyp. 4, 1949, C. 107-12

SO: Letopis' Zhurnal'nykh Statey, Vol. 45, 1949

AL'BEKOVA, R.G.

Treatment of cystitis with furacillin. Urologiia 23 no.3:49-50
My-Je '58 (MIRA 11:6)

1. Iz poliklinicheskogo otdeleniya kafedry urologii (zav. - dots.
N.Kh. Sitdikov) Kazanskogo instituta dlya usovershenstvovaniya
vrachey i 5-y gorodskoy klinicheskoy bol'nitsy.
(CYSTITIS, ther.
nitrafurazone (Rus))
(NITRAFURAZONE, ther. use
cystitis (Rus))

AYDAROV, A.A., kand. med. nauk; AL'BEKOVA, R.G.

Results of the transplantation of ureters into the intestine.
Kaz. med. zhur. 4:24-25 JI-Ag'63 (MIRA 17:2)

1. Kafedra urologii (zav. - dotsent N.Kh. Sitdykov [deceased])
Kazanskogo gosudarstvennogo instituta dlya usovershenstvovaniya vrachey imeni Lenina na baze 5-y Kazanskoy gorodskoy bol'nitsy (glavnyy vrach - N.I. Polozova).

VERDIZADE, A.A.; ALBENOV, A.A.

Determination of zirconium by the microperiodate method. Azerb.khim.
zhur. no.4:149-156 '63. (MIRA 17:2)

AL'DENSKIY, A. V.

(Cultivation of fast growing and valuable trees and shrubs) Moskva, Sel'khozgiz,
1940. 222 p.

1. Trees. 2. Shrubs.

1. AL'benskiy, A. V., Zemlyanitskiy, L. I., Morozov, I. P.
2. USSR (600)
4. Geology and Geography
7. The State Protective Forest Belt of the Mountains of Vishneyvaya-Ohkalov-Caspian Sea, A. V. Al'benskiy, L. I., Zemlyanitskiy, I. P. Morozov, (Moscow-Leningrad, State Forest Press, 1949). Reviewed by F. M. Mil'kov, Sov, Kniga, No. 11, 1949.
9. ~~Report~~ Report U-3081, 16 Jan, 1953, Unclassified.

AL'BENSKIY, A. V.

"Results of Hybridization of Larch, Maple, Elm, and Ash," Trudy Inst. Lesa,
No.8, 1951

AL'BEISKIY, A. V.

Fruit Culture

Cultivation of the lemon tree., Sad i og., no. 1, 1952.

9. Monthly List of Russian Accessions, Library of Congress, _____ May 1952, Uncl.

AL'BENSKIY, A. V.

5722. AL'BENSKIY, A. V. Metody Uluchsheniya Drevesnykh Porod. M. 1.,
Goslesbumizdat, 1954. 212s. s Ill. 23sm. 5,00 Ek. . 7r 50k V per.--
Bibliogr: s. 206-208-(55-1460) p 634.94:631.52/(016.3)

SO: Knizhnaya, Letopis, Vol. 1. 1955

RUDNEV, Boris Vladimirovich; AL'BENSKIY, A.V., redaktor; VARGANOVA, A.N.,
redaktor izdatel'stva; KONYASHINA, A., tekhnicheskiy redaktor

[Atkarsk ornamental plant nursery] Atkarskii pitomnik dekorativnykh
rastenii. Moskva, Izd-vo Ministerstva kommunal'nogo khoziaistva
RSFSR, 1956. 79 p. (MLRA 9:10)
(Atkarsk District--Plants, Ornamental)

AL' BENSKIY, A.V.

[Use of fast-growing trees in shelterbelt afforestation] Ispol'zovanie bystrorastushchikh porod v polezashchitnom lenorazvedenii. Moskva, Gos.izd-vo sel'khoz. lit-ry, 1956. 110 p. (MLR 10:10)
(Windbreaks, shelterbelts, etc.) (Trees)

CHERKASOV, Mikhail Ivanovich; AL'BEINSKIY, A.V., redaktor; VARGANOVA, A.N.,
redaktor izdatel'stva.

[Flower gardens; an album] TSvetniki; al'bom. Moskva, Izd-vo
Ministerstva kommunal'nogo khoziaistva RSFSR, 1956. 288 p.
(Gardens) (MLRA 9:12)

AL'BENSKIY, A.V., doktor sel'skokhozyaystvennykh nauk, redaktor; NIKITIN,
P.D., kandidat sel'skokhozyaystvennykh nauk, redaktor; FEDYAYEV,
A.N., redaktor; PAVZNER, V.I., tekhnicheskiy redaktor

[Land improvement through afforestation] Agrolesomeliioratsiia. Izd.
3-e, perer. i dop. Moskva, Gos. izd-vo selkhoz. lit-ry, 1956. 743 p.
(Soil conservation) (MLRA 9:12)
(Afforestation)

AL' BENSKIY, A.V.

AL' BENSKIY, A.V.; TSALIKHINA, M.N., kandidat sel'skokhozyaystvennykh nauk.

A forest in the steppe. IUn.nat. no.11:13 N '57. (MIRA 10:10)

1.Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk (for Al'benskiy).
(Windbreaks, shelterbelts, etc.)

AL'BENSKIY, A.V.

Nikolai Kuz'mich Vekhov; obituary. Bot.zhur. 42 no.6:956-959
Je '57. (MIRA 10:7)

1. Lesostepnaya opytnaya stantsiya.
(Vekhov, Nikolai Kuz'mich, 1887-1956)
(Bibliography--Botany)

SHATRANSKIY, T.P.; AL'BENSKIY, A.V., red.; VARGANOVA, A.N., red. izd-va,;
VOLKOV, S.V., tekhn. red.

[Summer transplanting of trees and shrubs in cities] Peresadka
derev'ev i kustarnikov letom v gorodakh. Izd. 2., ispr. i dop.
Moskva, Izd-vo M-va kommun. khoz. RSFSR, 1958. 121 p. (MIRA 11:11)
(Tree planting)

ALBENSKIY, A.V.

Aleksei Semenovich Kosmenko; on his 80th birthday. Zemledelie 6
no.5:93-94 My '58. (MIRA 11:6)
(Kosmenko, Aleksei Semenovich 1878-)

AL'BENSKIY, A.V., red.; NIKITIN, P.D., red.; RASTORGUYEV, L.I., red., kand.
sel'khoz. nauk; IVANOV, A.Ye., red.; SELEZNEV, A.V., red.;
SENKEVICH, A.A., kand. sel'khoz. nauk, red.; GORIN, T.I., red.;
POPOV, V.V., red.; DEBELYY, A.S., red.;

[Collection of scientific research papers] Sbornik nauchno-
issledovatel'skikh rabot. Stalingrad, 1959. 46 p.

(MIRA 16:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut agrolesome-
lioratsii.

(Forestry research)

COUNTRY	: RUMANIA	K
CATEGORY	: Forestry. Forest Management.	
APS. JOUR.	: RZhBiol. No. 3, 1959, No. 10791	
AUTHOR	: Albenki, A. V.	
INST.	: -	
TITLE	: Impressions and Suggestions Relative to the Forest Management in Rumania.	
ORIG. PUB.	: Rev. padurilor, 1958, 72, No. 2, 64-66.	
ABSTRACT	: no abstract.	

CARD: 1/1

AL'BENSKIY, Anstoliy Vasil'yevich; SHCHEPOT'YEV, F.L., doktor sel'khoz. nauk, retsenzent; KONOVALOV, N.A., prof., retsenzent; VERESIN, M.M., red.; ARNOL'DOVA, K.S., red. izd-va; BACHURINA, A.M., tekhn. red.

[Tree breeding and seed production] Selektatsia drevesnykh porod i semenovodstvo. Moskva, Goslesbumizdat, 1959. 305 p.
(MIRA 14:5)

1. Ukrainskiy nauchno-issledovatel'skiy institut lesnogo khozyaystva (for Shchepot'yev). 2. Zavednyushchiy kafedroy lesovodstva Ural'skogo lesotekhnicheskogo instituta (for Konovalov)
(Tree breeding) (Seed production)

AL'BENSKIY, A.V. (g.Stalingrad)

Improving old and developing new tree species for forestry.
Agrobiologiya no.5:774-776 S-O '59. (MIRA 13:2)

1. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyaystvennykh
nauk imeni V.I.Lenina.
(Tree breeding)

AL'BENSKIY, A.V., doktor sel'khoz. nauk, prof., otv. red.

[Silvicultural land improvement research in the U.S.S.R. for 1959] Agrolesomeliativnye issledovaniia v SSSR za 1959 god. Stalingrad, Izd. VNIAMI, 1960. 198 p. (MIRA 15:6)

1. Predsedatel' Koordinatsionnogo Soveta pri Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk im. V.I.Lenina po probleme "Agrolesomeliatsiya", direktor Vsesoyuznogo nauchno-issledovatel'skogo instituta agrolesomerioratsii, chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk im. V.I.Lenina (for Al'benskiy).

(Forest soils)

AL'BENSKIY, A.V.

Remote grafting of trees. Agrobiologiya no. 3:396-401
My-Je '60. (MIRA 13:12)

1. Chlen-korrespondent Vsesoyuznoy Akademii sel'skogo
khozyaystva imeni Lenina. Vsesoyuznyy nauchno-issledovatel'skiy
institut agrolesomeliatsii, Stalingrad.
(Trees) (Grafting)

~~ALIBENSKIY, A.V.~~, doktor sel'khoz. nauk, prof., otv. red.; POPOV, V.,
otv. za vyp.; TRUSOV, A.I., tekhn. red.

[Silvicultural land improvement studies in the U.S.S.R.
for 1960] Agrolesomeliativnye issledovaniia v SSSR za
1960 god. Stalingrad, VNIALMI, 1961. 276 p. (No.38)
(MIRA 16:8)

1. Chlen-korrespondent Vsesoyuznoy akademii sel'skokho-
zyaystvennykh nauk im. V.I.Lenina, Direktor Vsesoyuznogo
nauchno-issledovatel'skogo instituta agrolesomeliatsii
(for Al'benskiy).

(Windbreaks, shelterbelts, etc.--Research)
(Forest influences--Reserarch)

AL'BENSKIY, A.V.; VASIL'YEV, M.Ya.; KONDRASHOV, B.V.; KONDRAT'YEV, R.B.;
TARASENKO, A.N.; ZAKHAROV, P.S.; LYUBIMOV, V.P.

This is what scientists say about shelterbelts. Zemledelie
27 no.10:24-27 O '65. (MIRA 18:10)

1. Direktor Vsesoyuznogo nauchno-issledovatel'skogo instituta agrolesomeliyatsii. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk imeni Lenina (for Al'benskiy).
2. Tselinogradskiy sel'skokhozyaystvennyy institut (for Vasil'yev).
3. Direktor Povolzhskoy agrolesomeliyativnoy opytnoy stantsii (for Kondrashov).
4. Krasnoyarskiy sel'skokhozyaystvennyy institut (for Kondrat'yev, Tarasenko).
5. Novocherkasskiy inzhenerno-meliyativnyy institut (for Zakharov, Lyubimov).

PA 1/50T20

ALBENSKIY, V. L.

USSR/Chemistry - Thermal Analysis
Acetamide

Aug 49

"Additive Compounds of Acetamide," V. L. Al'-
benskiy, 4 pp

"Dok Ak Nauk SSSR, Nov Ser" Vol LXVII, No 6

Performed thermal analysis on binary systems of
acetamide with (1) water, (2) pinacol, (3)
acetic acid, (4) valeric acid, (5) lauric
acid, (6) cyanuric acid, (7) monochloroacetic
acid, and (8) trichloroacetic acid. Graphed
the third and the last three systems. Submitted
by Acad V. N. Sukachev 25 Mar 1949.

1/50T20

ALBER, H., ing.

Reduction of electric diagrams used in electric power by the
aid of digital computers. Energetica Rum 12 no.11:563-
573 N '64.

AL'BER, S. I.

USSR/Mathematics - Variational
Calculus

21 Aug 53

"Homologies of a Space of Planes and Their Application to Variational Calculus," S. I. Al'ber Tomsk State Univ im Kuybyshev

DAN SSSR, Vol 91, No 6, pp 1237-1240

Proposes a recursive method, which is based on a theorem of L. S. Pontryagin and on a certain special deformation, for investigating the basis cycles of Betti group $G(n)$, manifolds of non-oriented two-dimensional planes of a $(n+1)$ -dimensional Euclidean space. Employs this method to

275T71

obtain by a simpler way the results of C. Ehresmann (J de Math pures et appl. 16 (1937)) and to simplify considerably the results of S. Chern (Ann of Math. 49, 2 (1948)) on a ring of intersections. Acknowledges the guidance of A. I. Fetu. Presented by Acad A. N. Kolmogorov 27 Jun 53.

AL'BER, S. I.

USSR/Mathematics - Topology

Card 1/1 Pub. 22 - 1/48

Authors : Al'ber, S. I.

Title : Homology of homogeneous spaces

Periodical : Dok. AN SSSR 98/3, 325-328, Sep 21, 1954

Abstract : A recurrent method for the study of the homologies of different homogeneous spaces, with compact and non-compact transform groups, is described. This method was applied to the case of a multiformity with non-oriented $(k + 1)$ -dimensional surfaces of a $(n + 1)$ -dimensional substantial Euclidian space intersecting at the beginning of coordinates and a pseudo multiformity of k -dimensional spheres and surfaces of an n -dimensional conformal space. The results obtained are described. Seven references: 4-French and 3-USSR (1934, 1953).

Institution : Structural Engineering Institute, Tomsk

Presented by : Academician P. S. Aleksandrov, June 11, 1954

ALBER, S. I.

ALBER, S. I.

"Homologies of Homogeneous Spaces, and Their Application to the Calculus of Variations as a Whole." Moscow Order of Lenin State U imeni M. V. Lomonosov, Sci Res Inst of Mathematics and Mechanics, Moscow, 1955. (Dissertation for the Degree of Candidate in Physical and Mathematical Sciences)

SO. M-955, 16 Feb 56

✓ Al'ber, S. I. Homologies of the spinor group. Dokl.
Akad. Nauk SSSR (N.S.) 104 (1955), 341-344 (Rus-
sian)

The author determines the integral homology of the spinor groups and gives a geometrical construction of all the cycles [as far as Betti numbers and torsion coefficients are concerned, the results are contained implicitly in those of A. Borel, Proc. Nat. Acad. Sci. U.S.A. 39 (1953), 1142-1146; MR 15, 505]. A basis for the Betti group is constructed, which consists of homeomorphisms of manifolds which are covered by products of spheres. The individual spheres are mapped by the standard characteristic map into the orthogonal group, lifted into the spinor group; the spheres are multiplied by Pontryagin multiplication. The torsion cycles are constructed in a similar fashion. The procedure is inductive, and uses the inclusion $\text{Spin}(n-1) \subset \text{Spin}(n)$; it is proved that for $n \neq 2^k + 1$ this gives an isomorphism mod 2; for $n = 2^k + 1$, the kernel is exhibited.

H. Samelson.

Al'ber, S.I.

TRANSLATION FROM: Referativnyy zhurnal, Matematika, 1957, Nr.1,
p. 38 (USSR) ⁴⁴⁻¹⁻²⁵⁹

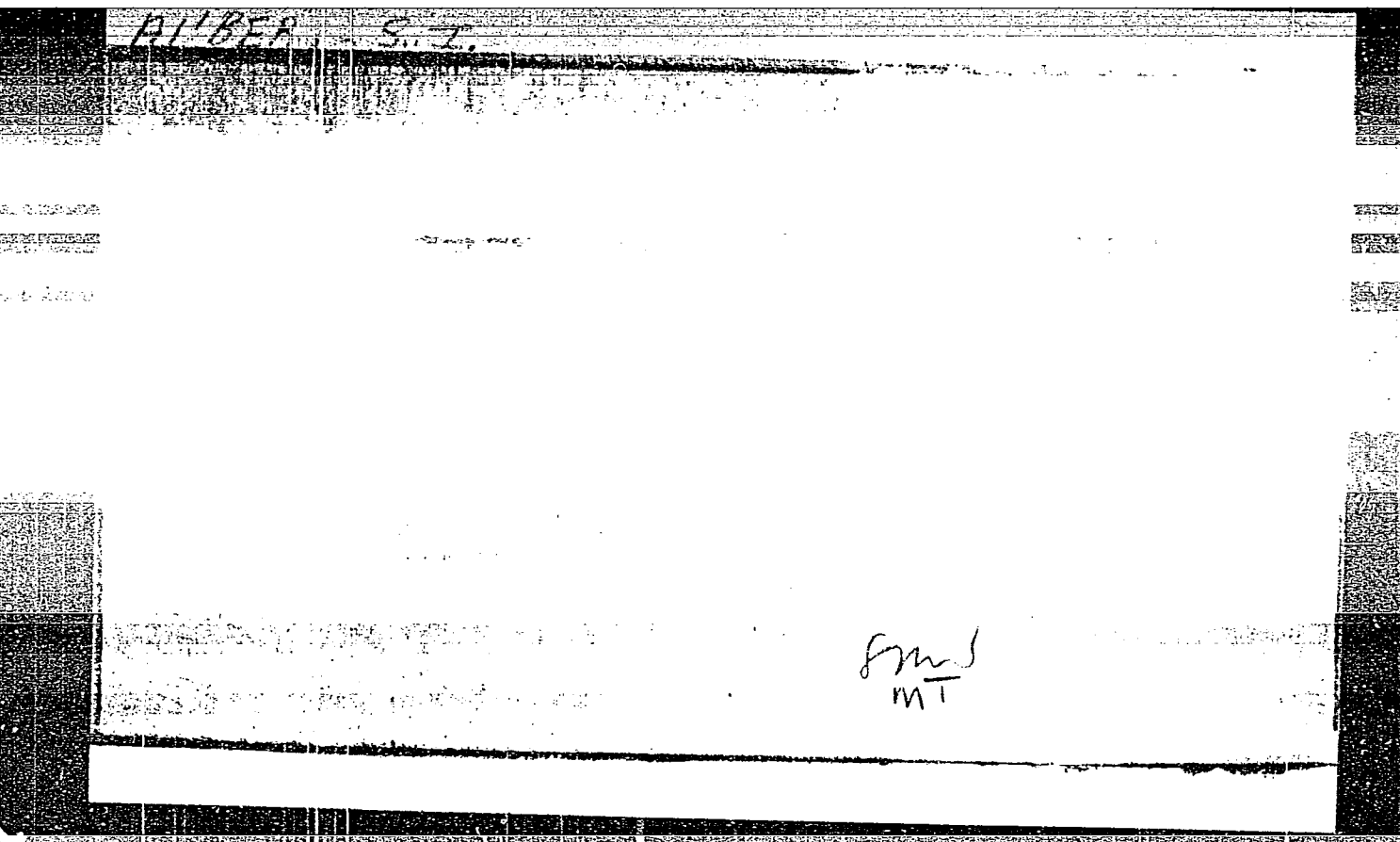
AUTHOR: Al'ber, S.I.

TITLE: The Homologies of Manifolds (Gomologii mnogoobraziiy)

PERIODICAL: Tr. 3-go Vses. matem. s"yezda, 2, Moscow, AN SSSR,
1956, pp. 51-52

ABSTRACT: The method of computing groups of homologies of
manifolds, based on the theory of duality of
L.S. Pontryagin, is discussed and applied by the
author to a series of concrete cases (R Zh. Mat,
1954, 1686; 1955, 4313; 1956, 3730).

Card 1/1



AL'BER, S.I.

The periodic problem of the calculus of variations in the large.
Usp.mat.nauk 12 no.4:57-124 Jl-Ag '57. (MIRA 10:10)
(Calculus of variations)

AL'BER, S.I.; BESPALOV, V.I.

Diffusion equation for a statistically nonhomogenous wave
guide. Radiotekh. i elektron. 6 no.3:448-449 Mr '61.

(Wave guides)

(MIRA 14:3)

AL'BER, S.I.

n-Dimensional problems of variational calculus in the large.
Dokl. AN SSSR 156 no. 4:727-730 Je '64. (MIRA 17:6)

1. Gor'kovskiy gosudarstvennyy universitet im. N.I.Lobachevskogo.
Predstavleno akademikom P.S.Aleksandrovym.

AL'BER, S.I.

Homologies of the space of nonoriented loops and their application
to the calculus of variations in the large. Dokl. AN SSSR 155
no.1:13-16 Mr '64.
(MIRA 17:4)

1. Gor'kovskiy gosudarstvennyy universitet im. N.I.Lobachevskogo.
Predstavleno akademikom P.S.Aleksandrovym.

ACCESSION NR: AP4022944

S/0020/64/155/001/0013/0016

AUTHOR: Al'ber, S. I.

TITLE: Space homologies of unoriented loops and their application to integral calculus of variations

SOURCE: AN SSSR: Doklady*, v. 155, no. 1, 1964, 13-16

TOPIC TAGS: calculus, variation, functional space, loop, unoriented loop, space homology, topology, manifold, Riemann manifold geodesic loop

ABSTRACT: The space homologies of unoriented loops of an n-dimensional sphere are computed in the present paper and in addition, an estimate of the number of geodesic loops in a Riemann manifold, which are homeomorphic in an n-dimensional sphere, is obtained. The countable sequence of the geodesic series consisting of n loops and of which only two enter into the previously known sequence is found. The computations were carried out by a reciprocal sequence method. (S. I. Al'ber, UMN, 12, 4 (76), 57, 1957; DAN, 100, no. 5,

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ACCESSION NR: AP4022944

of the geodesics. Because of the spaces $\hat{\Omega}(M^n)$ and $\hat{\Omega}(S^n)$ are homeomorphic it will suffice to calculate the space homologies of the loops on the sphere for an analysis of the homologies $\hat{\Omega}(M^n)$. The point $m_0 = (1, 0, \dots, 0)$ on the sphere S^n ; $x_0^2 + \dots + x_n^2 = 1$ is taken as the base point. Every large circle of the sphere S^n passing through the point m_0 is completely defined by the tangential unit vector e at the point m_0 . Let us denote it by $S(e)$. Then let $S(e)$ be any oriented circle. The circle is then divided into $(2k-1)$ equal parts by the points $m_0, m_1, \dots, m_{2K-2}$. The circle $S(e)$ is called the loop's support circle. The points $m_0, m_K, m_1, m_K + 1, \dots, m_{2K-2}, m_{K-1}$ are consecutively joined by the arcs of the circumference $\sigma_1, \dots, \sigma_{2K-1}$ so that the arc σ_i connects those points m_p and m_q for which

$$p \equiv (l-1)k \bmod (2k-1); \quad q \equiv lk \bmod (2k-1) \quad (5)$$

By introducing the above mentioned parameter on the plotted curve, the oriented loop is obtained. The arcs $\sigma_i(e)$ are the loop's components. If σ_i coincides with the shortest geodesic connecting m_p with m_q , then it is denoted by σ_i^- . It is denoted by σ_i^+ if it coincides with the large arc. With a p-projection, the

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L 21870-65 EWT(d) IJP(c)/ASD(a)-5/AFTC(p)
ACCESSION NR: AP4041134

S/0020/64/156/004/0727/0730

AUTHOR: Al'ber, S. I.

TITLE: Multi-dimensional problems in the calculus of variation in the large

SOURCE: AN SSSR. Doklady*, v. 156, no. 4, 1964, 727-730

TOPIC TAGS: calculus of variations, Morse theory, algebraic topology

ABSTRACT: "The major difficulty in applying the technique of the calculus of variation in the large to multi-dimensional problems resides in the construction of reducing deformations. In this paper is offered a new method of deformation, not based on uniqueness 'in the small': the deformations are directly carried out along the curves of fastest descent of the variational functional (parabolic descent.) With the help of the deformations so constructed, existence theorems are proved for stationary solutions of variational problems." (Author's introduction)
Given the variational functional

$$J(u) = \int_{\Omega} F(x, u, u_x) dx, \quad u|_S = \varphi, \quad (1)$$

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defined for $u(x) \in W_m^1(\Omega)$, where Ω is a bounded region with boundary S , F , S , φ satisfying certain smoothness hypotheses, a stationary solution is a function $u(x_1, \dots, x_n) \in W_m^1(\Omega)$ for which the first variation

$$\delta J(u, \eta) \equiv \int_{\Omega} (F_{u_{x_i}} \eta_{x_i} + F_u \eta) dx = 0 \quad (2)$$

for all $\eta \in \dot{W}_m^1(\Omega)$. The corresponding EULER equation is:

$$\frac{\partial}{\partial x_i} F_{p_i} - F_u = 0, \quad (3)$$

The curves of parabolic descent mentioned above are the solutions of a boundary value problem of the form:

$$\frac{\partial u}{\partial t} = \frac{\partial}{\partial x_i} F_{p_i} - F_u, \quad u|_S = \varphi, \quad u|_{t=c} = \psi \quad (4)$$

Another tool in the theory is a (generalized) critical point principle, based on the following definitions (let $J_c = \{J(u) \leq c\}$): (1) A reducing deformation in J_b is a continuous map $D_t(u): J_b \times [0, \infty] \rightarrow J_b$ such that

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(a) for each $u_0 \in J_b$, $\lim_{t \rightarrow \infty} D_t(u_0) = u_\infty$ exists, and $\lim_{t \rightarrow \infty} J(D_t(u_0)) = J(u_\infty)$

(b) $t_0 < T$ implies $J(D_{t_0}(u)) \geq J(D_T(u))$, with equality of, and only if, $D_t(u)$ is a stationary solution (for $t \geq t_0$). (2) By the critical value with respect to a singular cycle Z_K of the domain J_b , modulo J_a ($a < b$), is meant the number

$$q(z_k) = \lim_{t \rightarrow \infty} \max_{u \in Z_k} J(D_t(u)) \quad (5)$$

and the critical value of the homology class $\{Z_K\}$, containing Z_K , is the number

$$Q(z_k) = \inf_{Z \in \{z_k\}} q(z_k). \quad (6)$$

The last section deals with harmonic and minimal surfaces on a Riemannian manifold, leading to the result (Theorem 8): "The spaces of closed surfaces of fixed topological type on a compact Riemannian manifold of negative curvature consist of homotopically trivial components. In each component there exists a

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ACCESSION NR: AP4041134

unique harmonic, and a unique minimal, closed surface. There are no stationary surface on manifold of non-positive Riemann curvature." Orig. art. has: 19 equations

ASSOCIATION: Gorkovskiy gosudarstvennyy universitet im. N. I. Lobachevskogo (Gorkiy State University)

SUBMITTED: 23Dec63

ENCL: 00

SUB CODE: MA

NO REF SOV: 011 · OTHER: 005

Cord4/4

ACC NR: AP7002926

SOURCE CODE: UR/0020/66/171/006/1247/1250

AUTHOR: Al'ber, S. I.; Al'ber, Ya. I.

ORG: Scientific Research Institute of Applied Mathematics and Cybernetics. Scientific Research Radiophysical Institute at Gor'ky State University im. N. I. Labachevskiy (Nauchno-issledovatel'skiy institut prikladnoy matematiki i kibernetiki. Nauchno-issledovatel'skiy radiofizicheskiy institut pri Gor'kovskom gosudarstvennoy universitet)

TITLE: The method of differential descent for the solution of multidimensional variation problems

SOURCE: AN SSSR. Doklady, v. 171, no. 6, 1966, 1247-1250

TOPIC TAGS: nonlinear differential equation, variational calculus, approximation method, Banach space, Hilbert space

ABSTRACT: Trajectories of differential descent are studied in an infinite Hilbert or Banach manifold. Given in a region G of Hilbert space H a functional $u(x)$ of class $C^2(G)$ and required to find the minima of this functional within the region, the trajectories of the following equation are considered:

$$dx/dt = -u \operatorname{grad} u / |\operatorname{grad} u|^2.$$

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UDC: 517.948+518.12

ACC NR: AP7002926

SOURCE CODE: UR/0020/66/171/006/1247/1250

AUTHOR: Al'ber, S. I.; Al'ber, Ya. I.

ORG: Scientific Research Institute of Applied Mathematics and Cybernetics. Scientific Research Radiophysical Institute at Gor'ky State University im. N. I. Labachevskiy (Nauchno-issledovatel'skiy institut prikladnoy matematiki i kibernetiki. Nauchno-issledovatel'skiy radiofizicheskiy institut pri Gor'kovskom gosudarstvennoy universitet)

TITLE: The method of differential descent for the solution of multidimensional variation problems

SOURCE: AN SSSR. Doklady, v. 171, no. 6, 1966, 1247-1250

TOPIC TAGS: nonlinear differential equation, variational calculus, approximation method, Banach space, Hilbert space

ABSTRACT: Trajectories of differential descent are studied in an infinite Hilbert or Banach manifold. Given in a region G of Hilbert space H a functional $u(x)$ of class $C^2(G)$ and required to find the minima of this functional within the region, the trajectories of the following equation are considered:

$$dx/dl = -u \text{ grad } u / |\text{grad } u|^2.$$

Card 1/2

UDC: 517.948+518.12

ACC NR: AP7008806

SOURCE CODE: UR/0033/67/044/001/0158/0165

AUTHOR: Ornatskaya, O. I.; Al'ber, Ya. I.

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TITLE: Thermal history of the moon

SOURCE: Astronomicheskiy zhurnal, v. 44, no. 1, 1967, 158-165

TOPIC TAGS: radioactivity, ~~radiation~~, ~~crust~~ lunar surface, heat flow, *LUNAR TEMPERATURE, LUNAR RADIATION*

ABSTRACT: The results are given of computer calculations of the past and present thermal conditions of the Moon for different contents of radioactive elements. Calculations were carried out first for the homogeneous distribution of radioactive elements inside the Moon and then for an exponential distribution with a different depth of the principal concentration of radioactive elements (the second calculation was performed to determine the loss of radioactive elements during surface melting). The dependence of the effective depth of bedding of radioactive elements on the concentration and on the thickness of the crust was found. The time dependence of the Moon's temperature at different distances from the center and the heat flow through the Moon's

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UDC: 523.32

AL'BERKANE, N.G. (Borispol')

Concerning the diagnostic value of the fourth intercostal lead.
Vrach.delo no.12:1317-1319 D '56. (MIRA 12:10)
(ELECTROCARDIOGRAPHY)

DANOS, Bela (Budapest, VIII., Múzeum korut 4/a); ALBEROWSKY, Ede (Budapest, VIII., Múzeum korut 4/a); SARKANY, Sandor (Budapest, VIII., Múzeum korut 4/a)

Seed and capsule yield as well as morphine production of poppy in the various regions of Hungary. Botan kozl 49 no.3/4:201-208 '62.

1. Magyar Biológiai Társaság Botanikai Szakosztályának választmányi elnöke (for Sarkany).

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Direct measuring methods of stray-lead losses in polyphase induction motors. Prace Instytutu Elektrotechniki 10 no. 27: 19-43 '62.

1: Zakład Maszyn Elektrycznych, Instytut Elektrotechniki, Warszawa.

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Selection of the proper slot skews in squirrel-cage induction motors in order to reduce the stray-load losses. Inst elektrotech prace 10 no.30:73-94 '62.

1. Zakład Maszyn Elektrycznych, Instytut Elektrotechniki,
Warszawa.

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Vol. 15, No. 11, Nov. 1955.
WIADEMOSCI ELEKTROTECHNICZNE
TECHNOLOGY
Warszawa, Poland

So: East European Accession, Vol. 5, NO. 5, May 1956

ALBERSZTAJN, T., mgr inż.

Selection of the optimum air gap in 100 or less KW induction motors. Przegl elektrotechn 40 no. 2: 102-106 F '64.

1. Instytut Elektrotechniki, Warszawa.

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MUNTEANU, E.

Studies on the keeping conditions of sugar beets. Ind alim
16 no.3:157-162 Mr '65.

1. Food Research Institute, Bucharest (for Staticescu).
2. Roman Sugar Plant (for Lung). 3. Ministry of the
Food Industry (for Olteanu). 4. Podari, Sugar Plant
(for Craciunescu). 5. Bod Sugar Plant (for Albert).
6. Giurgiu Sugar Plant (for Munteanu).

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ALBERT, A.

SZENTAGOTHAI, J.; ALBERT, A.
~~PROFESSOR OF ANATOMY~~

The synaptology of Clarke's column. Acta morph.hung. 5 no.1-2:
43-51 1955.

1. Department of Anatomy of the Medical University, Pecs (Director:
Prof. J. Szentagothai)
(SPINAL CORD,
Clarke's column, synapses)

ALBERT, Anna, dr.; HAASZ, Istvan, dr.

Development of the principle of the smallest square. (To be contd.)
Geod kart 12 no.2:110-114 '60. (EEAI 9:9)
(Astronomical geography) (Least squares)

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Development of the principle of the small square. Pt.2. Geod kart 12
no.3:193-201 '60. (EEAI 10:3)
(Square)

ALBERT, Anna

Secular changes of geomagnetic elements in Hungary. Geofiz
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BERTHA, Istvan; KURALI, Ferenc; SULOKY, Istvan

Secular variations of geomagnetic elements in Hungary.
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1. Lorand Eotvos Hungarian State Institute of Geophysics.
2. Editorial board member, "Geofizikai Kozlemenyek"
(for Barta).

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Bronchial foreign bodies in adults. Tuberkulozis 16 no.8:
243-245 Ag '63.

1. A Somogy megyei Tanács Tbc Gondozóintézeté Bronchológiai
Szakrendelésének közleménye.

(BRONCHIAL DISEASES) (FOREIGN BODIES)
(BRONCHOSCOPY) (BRONCHOPNEUMONIA)
(THORACIC RADIOGRAPHY)

AL'BERT, A.S.; SKVORTSOVA, Ye.V.

Tuberculosis of the vermiform appendix, according to data on
24,300 appendectomies. Khirurgiia 39 no.12:97-99 D '63
(MIRA 18:1)

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(glavnyy khirurg - doktor meditsinskikh nauk F.L. Gektin) i
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PIROGOV, A.I.; ALBERT, A.S.

Association of lung cancer with esophageal leiomyoma. Vop.
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1. Iz Moskovskoy gorodskoy onkologicheskoy bol'nitsy No.62
(glavnyy vrach- V.D. Margolin) i torakal'noy Kliniki (zav.-
dotor med. nauk B.Ye. Peterson) Instituta eksperimental'noy i
klinicheskoy onkologii (dir. deystvite nyy chlen AMN SSSR
prof. N.N. Blokhin) AMN SSSR. Adres avtorov: Moskva, D-367, Voloko-
lamskoye shosse, d.30. Institut eksperimental'noy i klinicheskoy
onkologii AMN SSSR, 1-oye khirurgicheskoye otdeleniye.

AL'BERT, Bela, doktor (Vengriya)

Importance of transplant reinforcement for the outcome of keratoplasty.
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universiteta (dir. - prof. doktor Aladar Ketteshi).
(CORNEA--TRANSPLANTATION)

LUX, Janos; ALBERT, Bela; FEKEIE, Sandor

Glutamic-oxaloacetic transaminase (SGOT) in pregnancy. Magy.
noorv.lap. 27 no.1:61-64 J '64.

1. Kiskunfelegyhazi Varosi Korhaz Szüleszet-nőgyógyászati Osztalya
es Laboratoriuma.

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ZSOLDOS, Gyorgy, dr.; BAN, Ibolya, dr.; ALBERT, Belane, dr.-ne

The problem of mucoviscidosis in adults based on sweat electrolyte tests. Orv. hetil. 104 no.41:1931-1933 13 0 '63.

1. Orvostovábbképző Intézet, I. Belgyógyászati Tanszék és a Laboratóriumi Vizsgálatok Tanszéke.

(PANCREATIC CYSTIC FIBROSIS) (SWEAT)
(SODIUM CHLORIDE) (POTASSIUM)
(DIABETES MELLITUS) (STOMACH ULCER)
(BRONCHITIS) (PULMONARY HEART DISEASE)
(DUODENAL ULCER) (HEPATITIS)
(LIVER CIRRHOSIS) (COLITIS, ULCERATIVE)

ALBERT, B.

Standardisation of health and medical legislations. Cesk. nemoc.
18 no.4-5:98-101 May-July 1950. (CINL 23:2)

1. Prague.

ALBERT, B.

Professor Dr. Jiri Trapl. Cesk. nemoc. 18 no.4-5:113-114 May-July 1950.
(CLML 23:2)

ALBERT R.

Health legislations in Czechoslovakia in 1950. Cesk. nemoc. 18 no. 10:
167-168 Dec 1950. (CLML 23:2)

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ALBERT, B.

Problem of present roentgenology in hospitals and health centers.
Cas.lek.cesk. 89 no.17:496-499 28 Ap '50. (CML 19:2)

ALBERT, B.;WALLENFELS, V.

Project for reconstruction and construction of new health centers.
Gesk. nemoc. 19 no.1-2:10-13 Jan-Feb 1951. (QML 23:2)

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ALBERT, MAREK, A.

Unifications of health services in Czechoslovakia. Cesk. nemoc. 19
no.8-10:107-112 Oct-Dec 1951. (GLML 23:2)

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ALBERT, B.

~~XXXXXXXXXXXX~~

Association of Czech physicians and the medical heritage of Jan
Evangelista Purkyne. Cas.lek.cesk. 91 no.10:282-286 7 Mar 52.

(SOCIETIES, MEDICAL,

in Czech., assoc. of physicians, contribution of
Purkyne)

(BIOGRAPHIES,

Purkyne, Jan E.)

Albert, B. K.

ALBERT B K.

K problematice obecne roentgenologie a ustrednich roent-
genovych oddeleni v nemocnicich a sdravotnickych strediscich.
/Problem of present roentgenology in hospitals and health
centers/ Cas. lek. cesk. 89:17 28 Apr 50 p. 496-9.

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ALBERT, E.

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PERIODICAL: SBORNIK RADA ZEMEDELSKA EKONOMIKA , VOL. 32, no. 3, Mar. 1959

Albert, E. Feeding-stuff resources and their economic significance. p. 141.

Monthly List of East European Accessions, (EEAI), LC, Vol. 8, no. 5,
May 1959, Unclass.

F. ALBERT

Distr: 4E2c(j)/4E3d

7

5 May
2

Condensation products of benzyl cyanide and 2-chloro-
cyclohexanone. F. Albert and C. Stüner. *Analele univ.*
C. I. Parhon Bucuresti, ser. stiint. nat. 1956, No. 9, 97-102.

A mixt. of 400 ml. anhyd. ether or benzene and 1 mole
powd. NaNH_2 is treated 1 mole PhCH_2CN (I), refluxed 1 hr.,
cooled, 1 mole 2-chlorocyclohexanone (II) added and the
mixt. warmed to reflux 0.5 hr., and quenched over ice. The
product, extd. with ether, washed, dried, and distd. under
vacuum, yields a yellow-orange oil, b_p 100-200°; exposed to
the air it solidifies as a transparent resin. II (2 moles) con-
densed with PhBrCHCN in the presence of 2 moles NaNH_2
in 400 ml. anhyd. ether yields dicyanostilbene and cyclo-
hexyldienecyclohexanone. II (1 mole) and 1 mole mandelo-
nitrile in 400 ml. anhyd. ether is treated gradually with 1
mole P_2O_5 , refluxed 0.5 hr., cooled, filtered, and distd. under
vacuum. HCN is evolved during the distn. and BzH , a
small amt. of 2-oxocyclohexylacetonitrile, b_p 136-7°, and a
small residue are obtained. Krikor L. Reizian

Ja

HUMANIA/Organic Chemistry. Synthetic Organic Chemistry.

G-2

Abs Jour: Ref Zhur-Khim., No 13, 1958, 43296.

Author : Albert F.

Inst : "C. I. Parhon" University

Title : Condensation of Benzyl Cyanide with Trans-1,2-Dibromo-Cyclo-Hexanone.

Orig Pub: An Univ. "C.I. Parhon". Ser. stiint natur.,
1957, No 14, 91-94.

Abstract: In order to prepare (2-bromocyclohexyl)-phenyl-acetonitrile (I) 1,2-dibromo-cyclohexane has been condensed with $C_6H_5CH_2CN$ in presence of $NaNH_4$ in C_6H_6 , by the previously described procedure (Vasiliu G., Albert F., Lucrarile ses. gen. st. ale Acad. R.P.R. din Iunie, 1950, 518). Fractionation of the resulting reaction products made it

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RUMANIA/Organic Chemistry - Synthetic Organic Chemistry

G-2

Abs Jour : Ref Zhur - Khimiya, No 14, 1958, 46694

C_6H_6 and 35 g of III were heated 1 hour, 70 g of II

($R = OC_2H_5$) was added, and 1.2 g of I, boiling point

145 to 147°/10 mm, was separated after heating the mixture 1 hour, extraction with C_6H_6 and distillation in vacuo. I-s ($R = NO_2, OCOCH_3$) were synthesized by the same method, they sublime without distilling, if heated in vacuo, and dissociate at a temperature rise. The yields of I by II ($X = Cl, Br, I; R = H, CH_3, CN$) are 50 to 55%. In the case of $R = Br$ or OC_2H_5 , the reaction proceeds otherwise, and a greater amount of resinous compounds and initial compounds, which have not reacted, are obtained. The author explains the obtained data assuming that the reaction direction depends on the radicals R bonded to the $C(2)$ of the nucleus. Either these R-s decrease the

Card 2/3

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100810007-4"

Abs Jour : Ref Zhur - Khimiya, No 14, 1958, 46694

possibility of halogen ion formation in consequence of the induction effect, or, in other cases, the induction effect is lower and the condensation proceeds with the formation of I-s at considerably yields.

ALBERT, F.

Syntheses in the series of the nonsymmetrical octahydroanthracene. p. 71.

ANALELE SERIA STINTELOR NATURII. Bucuresti, Rumania. Vol. 7, no. 18, 1958.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, no. 9, Sept. 1959.
Uncl.

ALBERT, Francisc; BUTUCEANU, Eva; CUPFER, Margareta; STOIA, Maria

Dosing α -naphthylamine in the presence of β -naphthylamine.
Rev chimie Roum 9 no.6/7:441-443 Je-Jl '64

1. Laboratory of General Chemistry, Polytechnic Institute,
Bucharest, 1 Polizu St.

ALBERT, Francisc; BUTUCEANU, Eva; CUPFER, Margareta; STOIA, Maria

Dosing α -naphthylamine in the presence of β -naphthylamine.
Studii cerc chim 13 no.6/7:449-451 Je-Jl '64

1. Laboratory of General Chemistry, Polytechnic Institute,
Bucharest, 1 Polizu St.

ALBERT, F.; BUTUCEANU, E.; CIFFER, Margareta

Quantitative analysis determination of β -naphthylamine in the presence of α naphthylamine. Rev chimie Roum 9 no.12:835-838 D '64.

1. Laboratory of General Chemistry, Polytechnic Institute, 1 Polizu Street, Bucharest. Submitted July 28, 1964.

ALBERT, F.; BUTUCEANU, E.; CUPFER, M.

Volumetric determination of the β -naphthylamine in presence of α -naphthylamine. Studii cerc chim 13 no.12:879-881 D '64.

1. Laboratory of General Chemistry, Polytechnic Institute, Bucharest, 1 Polizu Street.

ALBERT, F.M.; MARCULETIU, V.T.; BRATEANU, V.; CAPLESCU, N.; STOIA, M.;
POPESCU-VALEANU, M.

Recovering vanadium from the catalyst of the contact sulfuric acid industry. Bul Inst Politeh 26 no.1:41-47 Ja-F '64.

1. Laboratory of General Chemistry, Polytechnic Institute, Bucharest.

ALBERT J.

"Physical Processes Taking Place in the Drying of Ceramic Materials" p. 321
(Epitoanvag, Vol. 5, No. 10, October, 1953, Budapest)

SO: Monthly List of East European Vol. 3, No. 3 1954
Accessions, Library of Congress, March 1954, Uncl.

Albert I

possibilities for improving the quality and
time for the production of bricks

Albert (Building Materials) / ~~Production~~ / ~~Analysis~~

Due to the fact that the production of sand lime bricks is a continuous process, only the best quality raw materials can be used.

The production of sand lime bricks is a continuous process, and the steam heating time and the steam pressure at the point of use are important factors in the production of high quality bricks.

ALBERT, J.

HUNG.

84. Clay-lime bricks and sand-lime bricks containing clay. Coloured sand-lime slabs — J. Albert. (*Építőanyag* — Vol. 6, 1954, No. 8, pp. 272–283, 3 figs., 6 tabs.)

Since the physical properties of clay-lime bricks made from sandy clay and varied amounts of lime by moulding in a moist and semi-dry state is lower than that of normal sand-lime bricks and, moreover, they are not weather-resistant, therefore their manufacture cannot be considered as practical. Moulding in a moist state is less economical than semi-dry moulding for it requires 70% more heat energy for steaming. Bricks made from a mixture of sand and lime with the addition of varied amounts and qualities of clay yield a product whose physical properties are better than those of bricks made without the addition of clay; furthermore, they are resistant to frost. Strength reaches a maximum value when a determined percentage of clay is added; this percentage differs for the various kinds of clay. — In order to produce coloured sand-lime slabs, a part of the sand must be ground to a 0.06 mm fineness and ground natural mineral colours added. The strength of the slabs exceeds 200 kg/cm². They meet the requirements set for roof tiles as to strength, water retention and resistance to frost.

ALBERT, J.

Effect of the properties of clay on the sensitivity to drying of red ceramic materials; decreasing sensitivity by adding materials. p. 417.
Vol 6, no. 12, Dec. 1954. EPITOANYAG. Budapest, Hungary

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

ALBERT, J.

ALBERT, J. Factors affecting frost resistance and water retention of brick and tile. p. 203

Vol. 7, No. 6, June 1955.

EPITCANYAG.

TECHNOLOGY

Budapest, Hungary

So: East European Accession, Vol. 5, No. 5, May 1956

ALBERT, J.

Basic principles of manufacturing ceramic materials for heat insulation. p. 365.

EPITOANYAG, VOL. 7, No. 10, Oct. 1955

(Építőanyagipari Tudományos Egyesület és a Nehézipari Kutató Intézet Szilikat
Osztálya) Budapest.

SOURCE: East European Accessions List Vol. 5, No. 1 September, 1956

ALBERT, J.

1

1/2

Albert, J.

the distribution of voids remains unchanged. The heat distribution in the hollow bricks can be studied on the models by means of the following:

1. The pattern of the voids in the bricks is studied by means of the heat distribution in the bricks.

mt

ALBERT, J.; VARGA, D.

ALBERT, J.; VARGA, D. Clay-bound cinder blocks. p. 121

Vol. 8, no. 4, Apr. 1956

EPITOMNYAG

Budapest, Hungary

SO: East European Accession Vol. 6, no. 3, March 1957

ALBERT, J.

ALBERT, J. Cold-insulation sheets of peat. p. 325.

Vol. 8, No. 9, Sept. 1956.

EPITOANYAG

TECHNOLOGY

Budapest, Hungary

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

Category : Chemical Technology. Ceramics. Binding Materials. ^{HIS}
Concrete
Abs. Jour : Ref Zhur-Khimiya, No 14, 1959, No50475
Author : Albert, J.
Institute : -
Title : Processes Occuring in the Swelling of Pearlite
Orig Pub. : Epitoanyag, 1957, 9, No 6, 284-287
Abstract : Review of the process of pearlite swelling
as a function of water separation at varying
conditions of thermal treatment.--D. Pyushpeki

Card: 1/1

H-60

Country : Hungary
Category : H-13
Abs. Jour. : 39518
Author : Albert, J.
Institut. : Not given
Title : The Production and Testing of Keramzit and Perlite
Concretes
Orig. Pub. : Epitoanyag, 10, No 6, 186-196 (1958)
Abstract : The principles on which the production of keramzit
[a porous clay filler] and perlite concrete and
perlite plaster-mortar is based are discussed and
the properties of the finished concretes and plasters
are described. The author uses experimental
data and material obtained in the course of his investigations
in formulating a number of conclusions concerning the differences
between lightweight concretes produced from porous fillers and heavy-aggregate
concretes produced from fillers having a high specific gravity. A detailed analysis of the

Card: 1/2

H-61

HUNGARY / Chemical Technology. Chemical Products and H
Their Application. Ceramics. Glass. Binding
Materials. Concrete.

Abs Jour: Ref Zhur-Khimiya, No 12, 1959, 43079.

Author : Albert J.

Inst : Not given.

Title : Raw Materials and Products of the Belgian Industry
as Reflected at the World's Fair in Buxelles.

Orig Pub: Epitoanyag, 1958, 10, No 9, 309-315.

Abstract: Review of progress made in the Belgian ceramic in-
dustry, nature of clays, basis of their geological
age, and methods of their treatment in the brick
factories.

Card 1/1

ALBERT, J.

Manufacturing powdered coal ash building material elements with ceramic binding
by means of a vibropress. p.355

EPITOANYAG. (Epitoanyagipari Tudományos Egyesület)
Budapest, Hungary
Vol. 11, no.10, Oct. 1959

Monthly List of East European Accessions (EEAI) LC., Vol. 8, no.12, Dec. 1959
U_ncl.

ALBERT, Janos, dr.

Various methods for manufacturing as well as the technical characteristics of the powdered coal ash-gravel. Epitoanyag 12 no.10:345-351 0 '60.