

Hawka, Edmund. Ausfüllung und Überdeckung konvexer Körper durch konvexe Körper. Monatsh. Math. 53, 81-131 (1949).

Let $K = K(r, f)$ be a convex body in n -dimensional space, with the origin 0 as centre, defined by an inequality $f(x) = f(x_1, \dots, x_n) \leq r$. Let

$$M = \sup_{\Gamma} \inf_{0 \neq z \in \Gamma} f(z), \quad \alpha = \inf_{\Gamma} \sup_{z \in \Gamma} f(z + z),$$

where Γ is an arbitrary lattice with determinant 1 and z are arbitrary points. The author proves that

$$1 \leq [1 - \frac{1}{2}(1 - \frac{1}{n}J/nM)^n]^{-1} \leq \alpha^n J \leq (\frac{1}{n}M^n)J \leq n^n,$$

where J is the volume of $K(1, f)$.

A set of bodies $K_i: f(x - p_i) \leq r, i = 1, \dots, n$, is said to form a packing of a bodies K into a convex body B , if each K_i is contained in B and no two K_i have common inner points. A similar set $K_i, i = 1, \dots, n$, is said to form a covering of B by u bodies K if each K_i contains an inner point of B and every point of B is contained in some K_i . A packing of K into B is said to be a lattice packing, if, for some lattice Γ and some point z , (i) $p_i = g_i + z$ for some g_i of Γ , and (ii) if $p + ze\Gamma$ and the body $f(x - p) \leq r$ is contained in B , then p is one of the p_i . [The author omits the essential condition (ii); his definitions 5, 13 and 24 need appropriate modifications, and so do the proofs of theorems 5 and 26.] A lattice covering is defined similarly. Let $a(B, K)$ and $u(B, K)$ be the upper and lower bounds of the number of bodies K in the packings and coverings of B , respectively.

Source: Mathematical Reviews, Vol.

tively. Let $a^*(B, K)$ and $u^*(B, K)$ be the corresponding bounds for the lattice packings and lattice coverings.

The author obtains both upper and lower bounds for both $a^*(B, K)$ and $u^*(B, K)$, which ensure that, if V is the volume of B , the limits

$$\Delta^* = \lim_{n \rightarrow \infty} a^*(B, K)Jr^n/V, \quad \delta^* = \lim_{n \rightarrow \infty} u^*(B, K)Jr^n/V$$

exist and have the values $(\frac{1}{n}M)^n J$ and $\alpha^n J$. Further it is shown that

$$\Delta = \lim_{n \rightarrow \infty} a(B, K)Jr^n/V, \quad \delta = \lim_{n \rightarrow \infty} u(B, K)Jr^n/V$$

exist and are independent of B .

It is clear that $\Delta^* \leq \Delta \leq \delta \leq \delta^*$. Improved upper bounds for Δ and lower bounds for δ are found for certain classes of bodies K similar to those discussed by J. G. van der Corput and H. Daynéport [Ned. Akad. Wiskund. Proc. 49, 701-707 = Indagationes Math. 8, 409-415 (1946); these Rev. 8, 317]. Other topics discussed are: upper bounds for Δ for spheres and cylinders; packings and coverings with convex bodies which do not have a centre; distributions of points p_1, \dots, p_n in B with $f(p_i - p_j) \geq d$, if $i \neq j$; packings in which at most $k-1$ bodies may overlap; coverings in which each point of B belongs to at least k bodies; packings and coverings with bodies, which are not all the same size, or which are selected from a set of bodies, not all the same shape; selection from coverings of systems of nonoverlapping bodies.

C. A. Rogers (Princeton, N. J.).

Hawka, Edmund

Hawka, Edmund. Über Integrale auf konvexen Körpern.
T. Monatsh. Math. 54, 1-36 (1950).

Let B be a convex body in R_n and let the Gaussian curvature of its surface have a positive lower bound. Suppose the origin is an inner point of B and that $f(x)$ is the distance-function of B , where $x = (x_1, \dots, x_n)$. Write dx for the element of volume and $lx = l_1x_1 + \dots + l_nx_n$, where $l = (l_1, \dots, l_n)$. The author discusses integrals of the type $\int_B \Phi(f(x)) dx$ subject to differentiability conditions on the surface of B and on the arbitrary function $\Phi(u)$, using the method of stationary phase.

For given unimodular matrix A , vector y , and real number $u \geq 0$, denote now by $\Phi(y, u)$ the number of integer vectors x satisfying $f(A(x-y)) \leq u$, i.e. $\Phi(y, u)$ is the number of lattice points in a body, u , times B displaced to Ay . Then, if \mathfrak{I} is the volume of B , we have as $u \rightarrow \infty$,

$$(i) \quad \Phi(y, u) = \mathfrak{I}u^{n/2} + O(u^{(n-1)/2}(u+1)),$$

$$(ii) \quad \Phi(0, u) = \mathfrak{I}u^{n/2} + \Omega(u^{(n-1)/2}).$$

Sources: Mathematical Reviews,

Vol. 12, No. 3.

Let $\lambda(u) \nearrow \infty$ as $u \nearrow \infty$ and let $0 \leq \varepsilon < 2/(n-1)$. Suppose $\omega_0, \omega_1, \omega_2, \dots$ is a sequence such that $\sum N^{-\varepsilon-1}(\omega_i) < \infty$. Then (iii) $\Phi(y, u) = \mathfrak{I}u^{n/2} + O(u^{(n-1)/2}\lambda(u))$ for almost all y as u runs through the sequence ω_i . The proofs depend on the estimates for integrals and are similar to the corresponding known proofs for ellipsoids. For (i) and (ii) see Landau, S.-B. Preuss. Akad. Wiss. 1911, 458-476; Nachr. Ges. Wiss. Göttingen. Math.-Phys. Kl. 1915, 161-171 (1916); and for (iii) see D. G. Kendall, Quart. J. Math., Oxford Ser. (1) 19, 1-26 (1948); these Rev. 9, 57 [J]. An improvement of Minkowski's convex body theorem is also given for bodies B provided that the dimension-number $n \not\equiv 1 \pmod{4}$. Independently of the above, a relation is given between the numbers of lattice points in two polar bodies, generalizing one of A. Gelford [C. R. (Doklady) Acad. Sci. URSS (N.S.) 17, 447-449 (1937)] for parallelepipeds. The notation A^* for the transpose of A is used. In equation (3), page 21, read $k = A^{*-1}y$. This definition of k is tacitly assumed in §§ 6-10. There are further minor misprints.

J. W. S. Casson (Cambridge, England).

Hawke, Edmond

Hawke, Edmund. Integrale auf konvexen Körpern. II.
Monatsh. Math. 54, 81-99 (1950).

In the notation of the review of part I [see the preceding review] let $G(l) = \int_S e^{lx} dx$ and let $H(l)$ be the function of support (Stützfunktion) of S . If S has centre 0 the zeros of $G(l)$ lie with a finite number of exceptions on infinitely many convex surfaces L_k , $k = 1, 2, \dots$, with the same centre and asymptotically approaching $H(l) = \frac{1}{2}(m+1)\pi + \frac{1}{2}(2k+1)\pi$. If S has no centre, then a ray through 0 has on it only a finite number of zeros of $G(l)$ except in specified cases. If $m=2$ then $G(l)$ vanishes on infinitely many curves of the type $H(l)=\text{constant}$ if and only if S is an ellipse. The estimates of part I for some integrals $\int_S \Phi(f(x))e^{lx} dx$ are improved. J. W. S. Cassels (Cambridge, England).

Sources: Mathematical Reviews, Vol 12, No. 3.

Hawka, Edmund

Hawka, Edmund. Über die Zetafunktion konvexer Körper.
Monatsh. Math. 54, 100-107 (1950).

Let a convex body B in m -dimensional space be defined by $f(x) \leq 1$. Let the origin O be an interior point of B , and assume that the boundary of B is analytic and that all tangent planes have contact of the first order exactly. Let A be a matrix of determinant 1. The author considers the function $Z(s) = \sum_g (f(Ag))^{-s}$, where the summation is over all points g with integral coordinates, excluding 0. This is a special case of ζ -functions considered by Mordell [Quart. J. Math., Oxford Ser. (1) 1, 77-101 (1930)], but reduces to Epstein's ζ -function when B is a sphere with centre O . It is proved that $Z(s)$ is analytic except for a simple pole at $s = 1/m$, with residue $\frac{1}{m} V(B)$, where $V(B)$ is the volume of B . Other results are given which are partial analogues of results known for Epstein's ζ -function, one being a kind of functional equation, and another being an estimate for the difference between $Z(s)$ and an approximating sum. The proofs use results from the two papers reviewed above.

H. Davenport (London).

Source: Mathematical Reviews,

Vol. 12, No. 3.

HLAWKA, EDMUND

Hlawka, Edmund. Über Hinterpunkte in Parallelepipeden.
J. Reine Angew. Math. 187, 246-252 (1950).

The author's main result is as follows. Suppose we are given n independent directions in n -dimensional space, and a positive number V . Then there exists a parallelepiped P with centre O and volume V , and with its faces normal to the given directions, such that the number of pairs of opposite points with integral coordinates lying in P (not counting O) is less than $A_n V$. Here A_n is the constant $(1/\pi)(\pi!)^n 2^{1(n-1)}$. The proof is by an extension of the method by which Siegel [see Davenport, Acta Arith. 2, 262-265 (1937)] proved that such a parallelepiped exists, with volume depending only on n , which contains no point with integral coordinates except O . A new feature is the definition (§ 3) of successive minima depending on a number l . The author also proves a theorem relating to any convex body with centre O . This could in fact be deduced from the earlier result, and with a better constant, by circumscribing a parallelepiped to the convex body [see Dvoretzky and Rogers, Proc. Nat. Acad. Sci. U. S. A. 36, 192-197 (1950), theorem 5A; these Rev. 11, 525].

H. Davenport.

Source: Mathematical Reviews.

Vol. 12, No. 3 .

HLAWKA, EDMUND

AUST.

Hlawka, Edmund. Zur Theorie der Überdeckung durch konvexe Körper. Monatsh. Math. 58, 287-291 (1954).

Four estimates are obtained for the inhomogeneous minimum M_1 of a convex body K in n -dimensional space relative to a lattice G . If K is given by $f(x) \leq 1$, where f is homogeneous of degree 1, then M_1 is defined by

$$M_1 = \max_{\mathbf{p}} \min_{\mathbf{g}} f(\mathbf{p} + \mathbf{g}),$$

where \mathbf{p} is any point and \mathbf{g} any point of G . One of the estimates is expressed in terms of the number B of pairs of points of G , other than O , in the interior of K ; it is

$$2M_1 \leq w^{1/n} \{w\}^{1-1/n}, \quad w = 2^n(B+1)\Delta V^{-1},$$

where $\{w\}$ denotes the least integer $\geq w$ and $\Delta = \det G$, $V =$ volume of K . Another estimate, which follows from this, is

$$2M_1 \leq v^{1/n} \{v\}^{1-1/n} \mu_1, \quad v = 2^n \Delta V^{-1} \mu_1^{-n},$$

where $\mu_1 = \min f(\mathbf{g})$ over $\mathbf{g} \neq O$. All the estimates are proved by applying Minkowski's fundamental theorem, or a similar theorem, to a suitable cylindrical body in $n+1$ dimensions, constructed in terms of K and an arbitrary point \mathbf{p} .

H. Davenport (London).

HAWK, EDMUND

Hawka, Edmund, Folgen auf kompakten Mengen.

Abh. Math. Sem. Univ. Hamburg 20 (1956), 223-241.

The author generalizes ideas and theorems concerning around the definition by which a real sequence x_1, x_2, \dots is called uniformly distributed mod 1 if

$$\lim_{n \rightarrow \infty} \lambda_n(f) = \lim_{n \rightarrow \infty} \frac{f(x_1) + \dots + f(x_n)}{n} = \int_0^1 f(x) dx = \mu(f)$$

whenever f is a continuous function having period 1. Instead of requiring x_1, x_2, \dots to be real numbers reduced mod 1, he requires them to be elements of a compact space X having a countable basis. Instead of considering only arithmetic means, he introduces a real matrix $A = (a_{nk})$ for which $\sum_{k=1}^{\infty} |a_{nk}| \leq \|A\| < \infty$ and $\sum_{k=1}^{\infty} a_{nk} \rightarrow 1$ as $n \rightarrow \infty$. Let $M(X)$ denote the weakly topologized space of all linear continuous functionals (or Radon measures) $\mu(f)$ defined over the vector space $C(X)$ of functions $f(x)$ which are real and continuous over X . Attention is then focused upon the linear functionals $\sum_{k=1}^{\infty} a_{nk} f_k(x)$ in $M(X)$ and their weak limit points. If μ is a functional in $M(X)$ and $n(1), n(2), \dots$ is an increasing sequence of integers such that

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Hawka, Edmund

$$\lim_{n \rightarrow \infty} \sum_{k=1}^n a_n(p_k, k) / (x_k) = \mu(f) = \int_X f d\mu$$

for each f in $C(X)$, then μ is called an A -distribution (A -Mass) of the sequence x_1, x_2, \dots . The paper contains 20 theorems involving existence, uniqueness, and other properties of these A -distributions. Several of these involve methods and results closely related to work of J. D. Hill [Ann. of Math. (2) 46 (1945), 556-562; Pacific J. Math. 1 (1951), 399-409; 4 (1954), 227-242; MI 7, 153; 13, 340; 15, 950] on the Borel property of transformations of sequences of zeros and ones. R. P. Aguirre.

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Edmund
MT

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618030006-7

HLEBANJA, J.

"Compendium on coupling technique" by Stübner-Rüggen. Reviewed by
J. Hlebanja. Stroj vest 8 no.4/5:116 0 '62.

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618030006-7"

HLEBANJA, J.

"Machine construction norms for study and practice." Reviewed by J. Hlebanja. Stroj vest 9 no.4/5:131 O '63.

"Welding technical standards and directions." Reviewed by J. Hlebanja. Ibid.:131-132

"Föttinger couplings and Föttinger gears" by E. Kickbusch. Reviewed by J. Hlebanja. Ibid.:133

HLEBANJA, Jozef, doc. inz.

The passenger cable railway on Popova Sapka Mountain. Stroj vest
8 no.6:181-184 D '62.

1. Fakulteta za strojnistvo, Ljubljana.

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618030006-7

CERNICOJ, B.; SELJAK, Z.; NOVAK, P.; PUST, J.; MUREN, H.; CPRESNIK, M.;
KUHELJ, A.; HLEBANJA, J.; KRUSIC, B.; POVSE, R.; KRAUT, B.;
PROSENC, V.; PRELOG, E.

Book reviews. Stroj vest 10 no.6:176-182 D '64.

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618030006-7"

EXCERPTA MEDICA Sec 13 Vol 13/6 Dermatology June 59

1633. A PECULIARITY OF LATE SYPHILIS WITH A REPORT OF A CASE
(Bulgarian text) - Petkov I. and Hlebarov St. Sci. Res. Inst. for Skin
and Ven. Dis., Sofia - SAVR. MED. 1958, 9/5 (105-108) Illus. 4

A report is given of a case of late syphilis, in which there was at the same time an enormous gumma the size of a child's head on the back, and an ulcerogummatus lesion on the chest. These gummatous lesions developed in a period of 6 months, one after the other, and 35 yr. after the onset of the disease. Treatment with penicillin-bismuth rapidly led to cure of the skin lesions.

Balabanoff - Sofia

SARIC, Marko, dr.; HLEBEC, Franjo, dr.

Studies on the incidence of kidney diseases in the rural population exposed to lead. Lijec. vjes. 81 no.7-8:457-464 '59.

1. Iz Instituta za medicinska istrazivanja Jugoslavenske akademije znanosti i umjetnosti i Centralnog bigijenskog zavoda MZ Hrvatske.
(KIDNEY DISEASE etiol.)
(LEAD POISONING compl.)

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618030006-7

MIKIC, E., dr.; MELBAC, F., dr.

Systolic blood pressure in normal patients and nephritis patients. Vojnosanit Pregl. 20 no.10:645-649 O '63.

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618030006-7"

HLEBEC, Milan, ing.

Signal and control equipment in modern weaving mills. Automatika 2
no.1:36-38 Ap '61.

(Automatic control) (Weaving)

HLEBEC, Milan, ing.

Conference on automation in the textile industry of Yugoslavia.
Automatika 2 no.1:54 Ap '61.

(Automation) (Yugoslavia—Textile industry)

H.M. Ir., Alexander, Int. arch.

Water tower as a multipurpose monitoring station. The height is 100 m.
190-252 JN 1986.

1. Hydropunkt, Bratislava.

HLEDIK, E.

Retrograde invagination of the jejunum into Braun's anastomosis.
Cesk. rentgen. 17 no. 4:258-260 Jl '63.

1. Klinicka zakladna rentgenologicke katedry UDL v nemocnici
v Praze na Bulovce, vedouci MUDr. J. Sianina. Klinicka
zakladna chirurgicke katedry UDL v nemocnici v Praze na
Bulovce, vedouci prof. dr. J. Knobloch, DrSs.
(INTUSSUSCEPTION) (JEJUNUM)
(GASTROENTEROSTOMY)
(POSTGASTRECTOMY SYNDROMES)
(RADIOGRAPHY)

HLEDIK, E.; VOJTECH, K.; FOJTIK, F.

Traumatic lung changes following closed thoracic injuries.
Cesk. rentgen. 18 no.2:116-120 Mr'64.

1. Klinicka zakladna rentgenologicke katedry UDL v Praze
(vedouci: MUDr. J.Slanina) a Detske chirurgicke oddeleni
v nemocnici v Praze na Bulovce (vedouci: MUDr. F.Fojtik)

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R/003/60/011/005/007/023
A125/A026

AUTHOR: Hlevca, B., Engineer

TITLE: Copolymerization by "Grafting" (Grefare) Under the Action of Ionizing Radiations

PERIODICAL: Revista de Chimie, 1960, Vol. 11, No. 5, p. 276

TEXT: This is an extract of an article, the origin of which is not mentioned. The article shows that ionizing radiation has found wide application in macromolecular chemistry. It lists a series of applications and presents the possibility of a new technology such as the polymerization by "grafting" (grefare). After briefly referring to the procedure of polymerization by "grafting", the author examines the behavior of macromolecules polycondensed by "grafting" and lists the advantages of the copolymerization by ionizing radiation. He also indicates the most usual ways for the production of "grafted" copolymers. Before describing the properties of the copolymers obtained, he briefly presented the mechanism of the "grafting" reaction. There are two mechanisms possible in function of the operation conditions. Finally, he presents the properties of the "grafted" copolymers in general.

Card 1/1

HLEVA, B.

R3003/60001/R32/0137/0223
A:23/A26

HLEVCA, G.

A new rapid method for the gravimetric copper determination. P. Spaca and G. Hlevca (Polytech Inst., Bucharest, Romania). *Adad. rep. populare Romanei, Bd. Iunii, Ser. stiint. teh. si chim.*, 5, 93-7 (1963). -- Cu can be detd. rapidly gravimetrically, with a relative error rarely as high as 0.5% (2-10 mg. Cu⁺⁺ to be detd.) by adding NH₃ to the Cu⁺ soln. (if Cu(NH₃)⁺⁺ has been formed, which soln. is then mixed with a 2% soln. of NH₃[Cr(SCN)₆(NH₃)₆]³⁻ to pp. [Cu(NH₃)₆]₂[Cr(SCN)₆(NH₃)₆]₃, which, if filtered off, washed with a 0.1% soln. of I⁻ + NH₃, then with EtOH, Et₂O, then with Br₂O, and then is dried *in vacuo*).

Werner Laibssig

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H. LEVCA, G.

✓ 2180. New rapid method for the gravimetric estimation of thallium.² P. Spatu and C. Ilievsca (Bucharest, Romania). *Stud. Cercet. Chim. Bucuresti*, 1955, 8 (3-4), 203-207. Thallium¹ is pptd. quant. as the complex Tl[Cr(SCN)₄(NH₃)₂] by the addition of a 3-5% aq. soln. of Resinecko's salt to an acid, neutral or weakly alkaline soln. of Tl⁺. After filtration, the ppt. is washed with ethanol and with ether, and is dried in a vacuum desiccator. The estimation can be carried out in the presence of most common ions, but Pb interferes. The analysis requires 60 to 70 min. J. H. WATSON

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1/1

A new gravimetric method for the determination of oxalic acid. P. Spino and Maria Hervéa (Inst. Polytechn. Burghausen, Bamberg). *Anal.-Rep. Populaire Roumaine, Bd. Stiint., Ser.: Mat., Fiz., Chim.* 2, 677-81 (1960) [French summary].—To an eq. mola. of oxalic acid or Na oxalate, add NH₄OH until the pH reaches 8.3 (phenolphthalein indicator). Add a concd. soln. of [Ca(NH₂)₂NO₂]Cl₂ until ppt. is complete. After 1 hr. filter through a filter crucible As and wash with 15-20 ml. of water contg. 1.25 g. reagent + a few drops NH₄OH in 1000 ml. H₂O, with 1-3 ml. H₂O, then twice with 2 ml. of 98% EtOH, and finally 3 times with 1 ml. of Et₂O. Dry the ppt. for 20 min. in a vacuum desicator and weigh as [Ca(NH₂)₂NO₂]Cl₂. The reagent is prepd. as described by Jørgensen. The presence of NO₃⁻, Cl⁻, Na⁺, K⁺, and NH₄⁺ does not interfere. Sulfates interfere only when exceeding by more than 5 times the quantity of oxalate; citric and tartaric acid disturb unless the ratio between acids and oxalate is 1:1. Gerhard Aufleger

A new method for the gravimetric determination of silver.
P. Spacu and M. Hileva. *Comun. Acad. Rep. Populară
Române* 3, 211-~~14~~ (1950). Ag was detd. gravimetrically by
treating the aq. soln. of Ag^+ with a 15% soln. of K xanthate
at room temp. The yellow ppt. of Ag xanthate is insol. in
 H_2O , ether, or alc. After addn. of 2 drops of an aq. pyridine
soln., the ppt. is filtered through a porcelain filter and
washed in distd. H_2O , alc., and ether. François Kertesz.

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PM gk

HLEVCA, M.

Complex compounds of some thiocyanates and metallic halogens with the hydrazide of isonicotinic acid. Note I. Studii cerc chim 9 no.3: 547-556 '61.

1. Laboratorul de chimie anorganica, Institutul politehnic, Bucuresti.

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618030006-7

RAVAK, I., candidat in stiinte economice; HLEVCA, M.

Problems of the balance of branch relations. Probleme
econ 15 no.7:17-30 J1 '62.

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618030006-7"

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618030006-7

SCHNAPP, Bernard (Bucuresti); HLEWING, SALO (Bucuresti)

Methods of ecologic research on small mammals. Natura
Geografie 12 no. 6:80-82 N-D '60.

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618030006-7"

Hlibowicki, Roman
POLAND/Soil Science - Cultivation, Amelioration, Erosion.

J-4

Abs Jour : Ref Zhur - Biol., No 2, 1958, 5807

Author : Hlibowicki, Roman

Inst :
Title : Field Shape and its Relation to Soil Mass Displacement

Orig Pub : Roczn. nauk rolniczych, 1955, F71, No 1, 89-110

Abstract : This is a discussion of the results of a comparison of geodesic photographs in the Svidnitsa rayon taken in 1935 and 1955 on slopes with up to 12% of slant. On clayey tilled soils an average of 16 mm. was removed every year through erosion. The author considers irrational methods of tillage on slopes to be the fundamental reason for the onset of intensive erosion. It is recommended that the boundaries between separate fields always be horizontal. The necessity of introducing into Polish agricultural legislation various regulations requiring measures to be undertaken against erosion on slopes is noted.

Card 1/1

HL/NAK, L.

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✓ 267. PRODUCTION OF PURIFYING MATERIAL AND AMMONIUM SULPHATE FROM WASTE FERROUS SULPHATE. Prchlik, J., Chlinač, L. and Mihályová, I. (Bulava (Fus), Prague), June 1955, Vol. 55, 197 (ccy). A description is given of a purifying agent for use in the gas industry and of its production from commercial ferrous sulphate simultaneously with the production of ammonium sulphate. A proposed plant layout is shown. It is also proposed to use ferrous sulphate for the purification of waste ammonical waters at small gas works; the ammonia will be converted in the water into ammonium sulphate and the water will be used as a fertilizer. (L.)

(2)

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3/137/62/000/009/005/033
A006/A101

AUTHOR: Hlineny, Jaroslav

TITLE: Desulfuration in electric-slag remelting

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 9, 1962, 40 - 41, abstract JV260 ("Sb. vědec. praci Vysoké školy banské Ostravě", 1961, v. 7, no. 2, 239 - 244, Czech; summaries in Russian and English)

TEXT: Desulfuration of metal in electric slag remelting is analyzed. Desulfuration is studied both from the viewpoint of the molecular theory of S distribution between the metal and slag, and from the viewpoint of the ionic theory. It is shown that S is eliminated from the slag due to its oxidation on the slag pool surface by air O_2 . The author observes that S can not be carried away from the slag by the formation of volatile F-compounds. The analysis of the desulfuration process from two viewpoints made it possible to explain satisfactorily the different desulfuration degree when using d-c or direct and reverse polarity. An attempt is made of explaining the problem of a fuller desulfuration by using a-c, as compared with desulfuration on d-c. There are 14 references.
[Abstracter's note: Complete translation] D. Kashayeva

Card 1/1

S/137/62/000/012/009/085
A006/A101

AUTHORS: Bůžek, Z., Hliněný, J.

TITLE: Energy balances and the possibility of reducing heat losses in electric-arc steelmelting furnaces

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 12, 1962, 46,
abstract 12V292 ("Sb. vědec. prací Vysoké školy báňské Ostravé",
1961, v. 7, no. 7, 735 - 748; Czech; summaries in Russian and English)

TEXT: The authors studied heat losses through cooling water and the furnace surface on 3 - 6-ton furnaces. Measures are recommended to reduce heat losses.

D. Kashayeva

[Abstracter's note: Complete translation]

Card 1/1

S/137/62/000/012/008/085
A006/A101

AUTHORS: Bužek, Z., Hliněný, J., Schindlerová, V.

TITLE: Operational conditions of steelmelting arc-furnaces

PERIODICAL: Referativnyj zhurnal, Metallurgiya, no. 12, 1962, 46,
abstract 12V291 ("Sb. vědec. prací Vysoké školy báňské Ostravé",
1961, v. 7, no. 7, 749 - 789, Czech; summaries in Russian and
English)

TEXT: The authors studied problems connected with the setting-up of efficient operational conditions for steelmelting arc-furnaces. Different methods of determining efficient operational conditions are compared. Information is given on A. N. Sokolov's (simplified) method which expresses the specific efficiency and electric power consumption as functions of the mean active power of the unit; this method is sufficiently reliable to determine efficient operational conditions. The operational conditions established by this method should be checked with the aid of specified operational characteristics or on the basis of theoretical operational characteristics.

D. Kashayeva

[Abstracter's note: Complete translation]
Card 1/1

HUZEK, Z.; HLINENY, J.

Intensification, mechanization and automation of steel production in electric arc furnaces. Sbor VSB Ostrava 9 no.1: 7-23 '63.

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618030006-7

HLINEY, J.; KOUDELKA, M.

Contribution to the problem of determining the electric operation of arc furnaces. Sbor VSB Ostrava 9 no.1:93-114 '63.

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618030006-7"

HLINENY, J.; BUZEK,Z.; WHEELER, F.

Problems of automatic control of the electrode motion of
electric arc furnaces. Sbor VSB Ostrava 9 no.1:115-140 '63.

Comparison of the various methods of automatic control of
the motion of electrodes used in arc furnaces in Czechoslo-
vakia. 141-161

HЛИNEMSKY, F.

"For socialist highway transportation." p. 6
"Will we succeed in the mechanized drying of bricks?" p. 6
" Rationalizers' movement managed collectively." p. 7
(Technicke Noviny, Vol. 1, No. 16, Dec. 1954, Praha)

SC: Monthly List of East European Accessions, Library of Congress, Vol. 3, No. 6, June.
1954, Uncl.

13007

S/194/62/000/010/008/084
A154/A126

AUTHORS: Hliněnský, Ferdinand, Zahradník, Miroslav

TITLE: A device for converting a graphic recording (image) into an electric voltage

PERIODICAL: Referativnyy zhurnal, Avtomatika i radioelektronika, no. 10, 1962,
19 - 20, abstract 10-1-38ch (Czech. pat., cl. 42d, 3/25; 42d, 1/15,
no. 98978, March 15, 1961)

TEXT: A patent is granted for a device for direct conversion of graphic recordings (images), e.g., oscillographic, mechanical or photographic recordings, into an electrical voltage. The device dispenses with the need for mathematical processing and the use of qualified manpower. The essence of this invention (see Figure) consists in the use of a rotary drum (1) whose lateral surface has slits (2) running parallel to the drum's hollow rotating axle (3). The axle (3) is rotated by an electric motor (5) through a transmission mechanism (4). Inside the drum (1) there is a photocell (6) fixed on a holder (7) through which wires (13) are led to the photocell (6). On the mounting board (8) of the de-

Card 1/3

A device for converting a graphic recording

S/194/62/000/010/008/084
A154/A126

vice there is an illuminating unit consisting of a lamp (9), a ground-glass screen (10), and a frame (11) serving to hold the image (12). The illuminating unit is enclosed by a casing (14), the drum (1) is covered by a cover (15). The graphic image, taken from the measuring instrument, is made by any suitable method, so that its width corresponds to the distance between neighboring slits (2). The lower part of the image is blacked out, and the upper part is cut around its contour, after which the image is inserted in the frame (11). When the drum (1) rotates, the luminous flux from the lamp (9), falling onto the photocell (6) through the slit (2), is proportional to the ordinate of the graphic (12); the voltage appearing at the photocell output is thus proportional to this ordinate and can be used for any purpose. In a variant of the device it is pointed out that the illuminating unit and the photocell can be mounted inside the drum, external mirrors being used for reflecting the rays coming from the image onto the photocell. There are 2 figures.

I.P.

[Abstracter's note: Complete translation]

Card 2/3

Z/059/62/000/003/003/007
D406/D301

AUTHOR: Hliněnský, Ferdinand

TITLE: Strain gages as sensors for automatic control of service-life program tests

PERIODICAL: Zpravodaj VZLÚ, no. 3, 1962, 95-100

TEXT: The VZLÚ (Aeronautical Research and Test Institute) developed a standard strain-gage unit which has been used since 1960 for automatic program tests to determine the service-life of aircraft components. The entire test unit consists of an electrical, hydraulic and loading system. This article deals only with the electrical system which, in turn, consists of a standard strain-gage apparatus with a balanced bridge and a strain-gage dynamometer. The four major components of the strain-gage apparatus, i.e. the control, safety, program, and registration unit, are built into the drawers of a cabinet and can individually be exchanged. The control unit is equipped with a slightly modified "SA 1" bridge, and serves the limitation of applied forces or cyclic loading; the safety unit protects

Card 1/2

Z/059/62/000/003/005/007
D406/D301

Strain gages as sensors ...

the tested parts from overloading (+ 10%); the program unit generates the electrical signals for the hydraulic loading device according to an arbitrary program, picked-up by phototransistors from a 2-m film loop with a total of 400 program cycles; the registration unit permits numerical counts, signalization, oscillographic representation, and punched-tape recording. The dynamometers are placed in the resultant force which loads the tested parts. The loads exert a mechanical stress on the gage, the resistance of the strain gage changes, and the bridge is counterbalanced at loading intervals. Most suitable for control purposes is a bridge with the very precise zero method. The load-control accuracy is $\pm 3\%$. The described test unit can also be expanded (two bridges, one for control, the other for balancing) for symmetrical control of two forces, or for non-symmetrical loading with more forces of arbitrary mutual proportion. The strain-gage test unit was successfully used in fatigue tests of "L 200" aircraft parts, but can also be used in similar tests by other mechanical-engineering shops. A similar apparatus of improved design, suitable for more complex test programs, is currently being developed. There are 17 figures and 4 references. (Technical editor: Eng. Zdenek Klima).

Card 2/2

33355

Z/032/62/012/006/002/002
E197/E435

26.2.1960

AUTHOR: Hliněnský, F.

TITLE: Automatic equipment for the life test of small
transport aircraft

PERIODICAL: Strojírenství, v.12, no.6, 1962, 443-449

TEXT: The article describes the equipment developed for the fatigue testing of the light transport aircraft by a programme which simulates the actual stresses during flight and landing. For a period corresponding to a 1.5 h flight there is first a steadily rising load to a maximum value of 1472 kg, followed by 72 cycles of oscillating load between zero and full load, and finally a landing load of 1109 kg. The whole cycle is repeated until either a predetermined number of cycles is reached or failure occurs. Provision is made against accidental overload. The equipment was designed for universal programmes and consists of 3 basic systems: the electric system which controls the magnitude and sequence of load, the hydraulic system which provides the force and a linkage system for exerting the load on the test piece. The programming medium is a 2 m long loop of 35 mm film (400 cycles), black or white spaces acting on a set of

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Z/032/62/012/006/002/002

E197/E435

Automatic equipment ...

5 phototransistors. The cycles in each of these channels are counted. The maximum loading frequency is 1 c/s, the uniformity of individual cycles 1%, the stability over 24 hours better than 3%. Input: 20 A at 24 V. The load is measured by resistance strain gauges in a bridge circuit, which is set to be in balance at a limiting load and a slight increase will cause a moving coil relay to actuate power circuits, the electromagnetic valves of the hydraulic system and a change-over to the next step. There is an independent supervisory system which prevents overload and indicates failure in the actuating system and stops the programme on failure of the actuating system or of the test-piece. The pressure in the hydraulic system is monitored and will stop the programme on overload. Light signals are associated with the more important circuits, which indicate whether load is rising or falling; failures, including that of the lamp illuminating the programming film, are displayed by illuminated panels and supervised by an alarm system. The hydraulic system has an input of 15 kW, the pump has an output of 35 litres/min. The distribution box for the individual hydraulic circuits is

Card 2/3

Automatic equipment ...

Z/032/62/012/006/002/002
E197/E435

controlled by electromagnetic valves. The linkage between the hydraulic system and the fuselage consists of standard hydraulic cylinders. The equipment was designed and put into operation in 1960 for testing the aircraft L200. Two other systems but with different programmes are used for aircraft Ae 45 and L 13. Future developments envisaged are a transistorized measuring bridge, an extension of programming facilities by the use of a magnetic band, and heavier loads. The moving coil meters will be replaced by measuring instruments with phototransistors for control. There are 17 figures.

ASSOCIATION: VZLÚ , Letňany

Card 3/3

ACC NR: AP6026308

SOURCE CODE: CZ/0034/66/000/008/0524/0532

AUTHOR: Hlineny, Jaroslav; Buzek, Zdenek

23
B

ORG: VSB, Ostrava

TITLE: Desulfurizing effect of electroslag melting

4

SOURCE: Hutnické listy, no. 8, 1966, 524-532

TOPIC TAGS: ~~steel~~, steel melting, electroslag melting, desulfurization, steel desulfurization

ABSTRACT: The effect of slag composition, furnace atmosphere, current type (ac or dc) and current polarity on the depth of desulfurizing action of electroslag melting has been investigated. It was found that though the most complete desulfurization was achieved with a calcium fluoride-base slag containing 20-40% lime, the desulfurizing capacity of slags is not the most important factor. The most complete desulfurization takes place when sulfur which passed from metal to slag is oxidized by oxygen of the furnace atmosphere at the slag-atmosphere interface. Therefore, the desulfurization in argon atmosphere was less complete than that in air atmosphere. The initial sulfur content of 0.023% was reduced to 0.017-0.021% in argon compared to 0.015-0.020 in air. Reversed-polarity dc and ac were equally

Card 1/2

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ACC NR: AP6026308

effective; both were more effective than straight-polarity dc. The initial sulfur content of 0.037% was reduced to 0.015% with ~~overbed~~- polarity dc and ac and to 0.028% with straight-polarity dc. Orig. art. has: 5 figures and 10 tables. [DV]

SUB CODE: II, 13/ SUBM DATE: none/ ORIG REF: 009/ OTH REF: 003/
SOV REF: 013/ ATD PRESS: 6054

Card 2/2 hs

H
SVENTSKIY, Ye. [Swiecki, E.]; KHLINJAK, A. [Hliniak, A.]; KOYRO, M.A.
[translator]

Results X-ray treatment of patients with breast cancer during an
8-year period. Vop.onk. 5 no.11:524-528 '59. (MIRA 14:7)

1. Iz Instituta onkologii (dir. - Ye.Sventskiy), Glivitsy, Pol'skaya
Narodnaya Respublika.
(BREAST--CANCER) (X RAYS--THERAPEUTIC USE)

HL EXCERPTA MEDICA Sec 16 Vol. 5/10 Cancer Oct 57

4004. JASIŃSKI W., HLINIĄK A., ŚWIECKI J. and WIECKOWSKA Z. Inst. Onkol., Gliwice. Leczenie nieoperacyjnego raka sutka promieniami Roentgena X-ray treatment of inoperable cancer of the breast Pol. Tyg. lek. 1957, 12/15 (553-554)

The results of treatment of 114 cases of inoperable cancer of the breast (1947-1950) treated by X-rays are presented. Tumour dose was 4500-6000 r. In 2.7% of cases necroses of soft tissues were noted; 20% of the patients survived 5 yr. after the treatment without signs of recurrence or metastases.

HILINIAK, Andrzej

Radiotherapy in cancer of the bladder by means of implanting of Au-198 seeds. Nowotwory 12 no.4:281-289 '62.

1. Z Instytutu Onkologii Oddzial w Gliwicach Dyrektor: dr med.
J. Świecki.
(BLADDER NEOPLASMS) (GOLD ISOTOPES)

HLINIAK, Andrzej

Early results of treatment of cancer of the bladder by means of Au-198 seeds. Nowotwory 12 no.4:291-299 '62.

l. Z Instytutu Onkologii Oddzial w Gliwicach Dyrektor: dr med.
J. Swiecki.
(BLADDER NEOPLASMS) (GOLD ISOTOPES)

HЛИИАК, Andrzej; ТИМЧА, Юрий; МИХАДАСЬ, Богдан; и/з ЕКІ, Галина

Some notes on the role of the P-32 test in the diagnosis of
malignant melanoma. Nowotwory 14, no.4:341-344 C-D '64

l. z Instytutu Onkologii w Gliwicach (Dyrektor: dr. med.
J. Świecki).

HЛИNIAK, Andrzej; BARLEWSKI, Jerzy; HЛИNIAK, Irena; LOBZEK, Kazimierz;
WOJCIESZEK, Zbigniew; PETRYNA, Alicja.

Comparison of the size of x-ray irradiation fields to the route
of metastases of cervical cancer. Nowotwory 34 no. 3:317-320
Ag-S 'cl.

1. Z Zakladu Rentgenoterapii Instytutu Onkologii w Gliwicach
(Kierownik: dr. med. A. Hliniak; Dyrektor: dr. med. J. Skiecki).

Hliniak, Andrzej, dr. med.

The problem of the dose-time relationship in the treatment of mycosis fungoides. Nowotwory 15 no.1:81-84 Ja-Mr'65.

1. Z Zakladu Rentgenoterapii Instytutu Onkologii w Gliwicach (p.o. kierownika: dr. med. A. Hliniak; dyrektor: dr. med. J. Swiecki).

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CIA-RDP86-00513R000618030006-7

CHIEF, POL. & MIL. INFORMATION BUREAU
INTERAGENCY

Central Committee of the Communist Party of the Soviet Union
Information Bureau, and neutrality, Peking, China, 1954
174-311-3 files.

L. Z. Longfeng (Xie Shizhi) (Xie Shizhi), Information Bureau
of the Central Committee, Beijing.

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618030006-7"

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618030006-7

MILNIK, Andrzej; BORKOWSKI, Jerzy; MILNIK, Irena; LOBODZIK, Wlodzimierz;
SWIĘTECKI, Zbigniew; RĘTRYNA, Alicja

Depth and exposition of the rectum and bladder in x-ray therapy
of cancer of the cervix uteri. Nowotwory 14 no.4:117-121 G-D '64

I. z Zakladu Roentgenoterapii Instytutu Onkologii w Gliwicach
(Kierownik: dr.med. A. Milnik; Dyrektor: dr. med. J. Swiętecki).

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618030006-7"

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618030006-7

HLINIAK, Andrzej

Radiotherapy of cancer of the bladder. Wiad. lek. 18 no.13:
1097-1098 1 Jl '65.

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618030006-7"

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618030006-7

HLINIAK, Andrzej

Application of megavoltage therapy in the treatment of
malignant neoplasms. Wiad. lek. 18 no. 23:1795-1796
1 D ' 65.

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618030006-7"

HЛИНИАК, А.

The evaluation of the conventional X-ray therapy in the treatment of bladder carcinoma. Cesk. radiol. 20 no.1: 17-20 Ja '66.

1. Instytut Onkologii w Gliwicach.

HUNIAK, Andrzej; DABROWSKI, Jerzy; HUNIAK, Irena; LOBODZIUK, Włodzimierz;
Wojciechowski, Zbigniew; PETRYNA, Alicja

Dose and exposition of the rectum and bladder in x-ray therapy
of cancer of the cervix uteri. Nowotwory 14 no. 4:417-421 C-D '64

I. z Zakladu Roentgenoterapii Instytutu Onkologii w Gliwicach
(Kierownik: dr.med. A. Hliniak, Dyrektor: dr. med. J. Sadecki).

HЛИNIAK, Irena; VOBRODT, Janina; WIECZORKIEWICZ, Anna; KOZLIK, Ryszard

Statistical analysis of results in the treatment of cervical cancer according to material of the Institute of Oncology in Gliwice during 1947-1952. Nowotwory 11 no.3/4:329-337 '61.

1. Z Instytutu Onkologii -- Oddzial Gliwico Dyrektor: dr med.
J. Swiecki.

(CERVIX NEOPLASMS ther)

VORBRODT, J.; WIECZORKIEWICZ, A.; HLINIAK, I.

Relation of therapeutic methods to results in the treatment of cervical cancer in the Institute of Oncology in Gliwice. Polski przegl.
radiol. 25 no.3:475-484 My-Je '61.

1. Z Instytutu Onkologii w Gliwicach Dyrektor: dr med. J. Swiecki.

(CERVIX NEOPLASMS radiother)

HŁINIĄK, Andrzej; DARBIEWSKI, Jerzy; HŁINIĄK, Irena; TOSZEK, Małgorzata;
MOĆKIEŚZEW, Zbigniew; PETRYNA, Alicja.

Comparison of the size of x-ray irradiation fields to the route
of metastases of cervical cancer. Nowotwory 34 no.3e217-240
Ag-S '81.

1. Z Zakładu Rentgenoterapii Instytutu Chirurgii w Gliwicach
(Kierownik dr. med. A. Hłoniak; Dyrektor dr. med. J. Darbiewski).

WIECZORKIEWICZ, Anna; HLINIAKOWA, Irena; VORBRODTOWA, Janina

Complications following radiotherapy of cervical cancer and effect of general conditions of the patient before therapy on the survival according to material of the Institute of Oncology in Gliwice.
Nowotwory 12 no.2:131-138 '62.

- l. Z Instytutu Onkologii Oddzial w Gliwicach Dyrektor: dr med.
J. Swiecki.
(CERVIX NEOPLASMS radiother) (RADIOTHERAPY compl)

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618030006-7

attempted evaluation of carcinogenicity of phenylhydrazine in the
experimental changed of the skin in breast cancer. *Acta Onkol.* 1964,
no 2:317-320. '64.

• C. Instytutu Onkologiczno-Radiologicznego w Warszawie.

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HLINIAKOWA, Irena

Postradiation complications following the treatment of cervical cancer records of the Institute of Oncology at Gliwice in the years 1953-1955. Nowotwory 15 no.1:47-57 Ja-Mr'65.

Our experiences in the treatment of the cancer of the uterine cervix using Manchester method. Ibid.:59-64

1. Z Instytutu Onkologii w Gliwicach (Dyrektor: dr. med. J. Świecki).

HLINIAKOWA, Irena; STARKIEWICZ, Hanna

Relation of therapeutic effects on the cytological picture in
elderly breast cancer patients. Nowotwory 15 nc.3:279-282
Jl-S '65.

1. Z Instytutu Onkologii w Gliwicach (Dyrektor: dr. med.
J. Świecki).

HLINKA, L. ; KARTAKOVA, D. ; PRCHLIK, J.

Obtaining sulfur from gas scrubber waste by extraction.
p. 298. Vol. 34, no. 11, Nov. 1954. PALIVA, Praha.

SOURCE: East European Accessions List (EEAL), LC, Vol. 5, no. 3, March 1956.

LEDVINKOVA, Bo., MUDr.; HLINOVSKY, M., MUDr.

Preventive examinations for adolescents. Cesk. zdrav. 11
no.4:179-181 '63.

1. KUNZ Stredoceskeho kraje - KUNZ Severoceskeho kraje.
(PHYSICAL EXAMINATION) (PREVENTIVE MEDICINE)
(SCHOOL HEALTH)

HLINOVSKY, V.

Operational control of plan implementation and estimates of plan implementation
indexes of railroad construction departments. II. Use of selective methods in
estimating the building plan implementation indexes. p. 184.

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Praha, Czechoslovakia
Vol. 7, no. 6, 1959.

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Nov. 1959
Uncl.

HLINOVSKY, Vladimir, inz.

Economic research on motor-truck transportation in enterprises of construction industry. Inz stavby 9 no.10 suppl.:112-114 0 '61.

1. Vyskumny ustav stavebni výroby, Praha.

HLINOVSKY, Vladimir, inz.

Economic research on meter-truck transportation in enterprises of construction industry. Ins stavby 9 no.11 suppl.:128-131 N '61.

1. Vyzkumny ustav stavebni výroby, Praha.

HLINOVSKY, Vladimir, inz.

Establishment of operational economic indexes of mechanization
and enterprise transportation and their use in operational
economic research. Stav. vyzkum. no. 5/6:13-19 '62

1. Vyzkumný ustav stavební výroby, Praha.

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HЛИNOVSKY, Vladimir, inz.

Economic analysis of the automobile transportation in the
building industry. Poz stavby 11 no.4:213-219 '63.

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1970 May, 1971, 1972.

Operational and economic investigation of the CIA's role in
transportation in the building industry. Case number is no. 1
37-137-163.

U.S. Industrial Institute of Building, Atlanta.

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SLINGOVY, Vyskov, Inz.

Operational and economic examination of earthwork machines. Inz
stavby 12 no.10: Suppl: Mechanizace no.10:158-161 '64.

1. Research Institute of Building Construction, Prague.

BLINOVSKI, Vasilij, Inc.

Operational and economic investigation of the building machinery
for concrete and masonry works. Inz stroyby 13 no.1. Ogol. Mechanizatsia
no.1:2-5 '65.

1. Research Institute of Building Construction, Moscow.

HILINKY, Vladimír; NOVÝ, František; PÍČA, Miroslav

Polymin FL, an agent for increasing the board production.
Papir a celulosa 20 no.3;70-72 Mr 165.

1. Československé papírny, Státní

HLINSTAK, A.

TECHNOLOGY

Periodical: KVASYNÝ PRUMYSL. Vol. 4, no. 10, Oct. 1958

HLINSTAK, A.; Kroupa, J. Calculation of basic figures and determination of indexes
in the Soviet system of management and accountancy. p. 245.

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March 1959, Uncl.

DEAK, Bertalan, fomernok; FUKSZ, Pal; HLINYANSZKI, Istwan, dr.;
SZANISZLO, Andras; ZACHEMSZKI, Ferenc; ELSZASZ, Rezso.

Analytic investigations, instrumentation. Energia es atom
17 no.1:27-30 Ja'64.

1. Pecsi Kokszmuvek (for Deak).

PORA, Ferenc, okleveles mernok; RAPP, Tamas; BORBAS, Nandor; NAGY BIRO,
Sandor; HLYNYANSZKY, Istvan, dr. SCHUMICZKY, Imre; KERTESZ, Gabor;
SIMEK, Rezso, okleveles vegyeszmernok; JANCZO, Tibor; TOTH, Istvan;
AUERSWALD, Janos; KLAFFL, Gyula; CSERNAVOLGYI, Laszlo.

Production and utilization of natural gas. Energia es atom
17 no.l:ll-15 Ja'64.

1. Orszagos Koolaj- es Gazipari Troszt (for Pora, Kertesz,
Auerswald and Klaffl).
2. Voros Csillag Trakrogyar (for Borbas).
3. Fovarosi Gazmuvek (for Nagy Biro);
4. Asvanyolajforgalmi
Vallalat (for Hlynianszky).
5. Dunai Vasmu (for Schumiczky).
6. VEGYTERV (for Simek and Csernavolgyi).

POLAND

GRABECKI, Jerzy and HLISNIK, Maria, Municipal Analytical Laboratory (Miejskie Laboratorium Analityczne) in Chorzow (Director: Dr. med. Jerzy GRABECKI)

"Simple and Rapid Murexide Method for Determining Calcium in Serum."

Warsaw, Polski Tygodnik Lekarski, Vol 18, No 34, 19 Aug 63,
pp 1271-1273

Abstract: [Authors' English summary modified] The authors tested the simple and rapid murexide method (Harper) for the determination of calcium in serum and found the results lower than those by the author. They describe their modification of the method and their findings. Significance of the differences from the standard are analyzed, and the authors note that their studies on the method are continuing. There are 8 references, of which two are Polish and the others Western.

1/1

GRABECKI, Jerzy; HLISNIK, Maria

A simple and rapid murexide method for the determination of calcium in the blood serum. Pol. tyg. lek. 18 no.34:1271-1273
19 Ag '63.

1. Z Miejskiego Laboratorium Analitycznego w Chorzowie;
kierownik: dr med. Jerzy Grabecki.
(CALCIUM) (BLOOD CHEMICAL ANALYSIS)
(INDICATORS AND REAGENTS)

HLISNIKOVSKY, JOSEF.

"Dulni kombajny. (Praha) Osveta (1951) 15 p. (Edice prednasek pro osvetove besedy, 1951) (Mining combines. illus.)"

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CIA-RDP86-00513R000618030006-7

Ministry of the Interior, Prague.

"Ostravjan 500, first Czechoslovak coal combine."
Uhli, Praha, Vol 3, No 5, May 1953, p. 132

SO: Eastern European Accessions List, Vol 3, No 10, Oct 1954, Lib. of Congress

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CIA-RDP86-00513R000618030006-7"

REINHOLD V. K., J.

"What was the development of the Soviet mining industry last year?"

Uhli, Praha, Vol 3, No 10, Oct. 1954, p. 275

SO: Eastern European Accessions List, Vol 3, No 10, Oct 1954, Lib. of Congress

Bohuslav Stoces' Vrtlicky a obecnky (Dr. J. a. Hammerovilla); a
book review, p. 427. UML. ("Ministerstvo průmyslu a energetiky")
Práha. Vol. 5, no. 12, Dec. 1951.

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Prague, Czechoslovakia.

A conference on the contemporary problems of environmental research. - . 21.
(Publ., Vol. 1, No. 1, Acad. Tech., Prague, Czechoslovakia.)

SO: Monthly List of East European Publications (EEL) I.G. Vol. 1, No. 11, Dec. 1971, p. 61.

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CIA-RDP86-00513R000618030006-7"

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HLIZA V.

COUNTRY	:	Rumania
CATEGORY	:	
ABS. JOUR.	:	AZKhim., No. 16 1959, No. 58772
TRANS.	:	Original in Russian, T.
TITLE	:	Steril Treatment of Wines at the State-Export Distillers in Focșani
ORIG. PUB.	:	Gradina, via si Livada, 7, No 11, 28-30 (1958)
ABSTRACT	:	Following clarification with bentonite, the wines are filtered, blended, vacuum-cooled until fine crystals of water begin to form, and transferred to constant-temperature tanks with linings of 'prodorglas' and external air cooling, in which the wine is kept for 7-14 days; at the end of that period the wine is filtered, passed through heat exchangers, and pumped into the sterilized product tanks. Low-alcohol content wines are concentrated before transfer to the constant-
CARD	:	1/2

country	Romania	8-17
category	:	
ABC. JOUR.	: REKhim., No. 16 1959, No.	98772
AUTHOR	:	
DATE	:	
TYPE	:	
ORG. PUB.	:	
ABSTRACT	Temperature tanks by centrifugation during which 50% of the water is removed as ice. A. Marin	
CARD:	2/2	351

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Strength problems in the joint of cylindrical shell and
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