

PA, E.I

58. Comparison of electric and compressed air power transmission in coal mines from the viewpoint of power economy. P. I. Pál. (Magyar Energiagazdaság Vol. 8, 1955, No. 4, pp. 144-151, 1 fig., 7 tabs.) GP

Electric and compressed air power transmission are compared for consumers at the work face this being the only location in mines at present where compressed air can be economically utilized. Comparison is based on the overall efficiency of power transmission and on specific power requirements in four types of mines utilizing electric and compressed air power obtained from the mains or from their own power stations. The overall efficiency of energy transfer by compressed air is seven to eight times less than that of electric power transmission and still less with equipment in a bad state of repair due to seepage losses. When making the comparison founded on specific power requirements the specific power consumption of all winning operations is calculated taking the local circumstances of the respective mines into consideration however comparisons cover only winning, opening cut and preparatory work, the majority of the other operations being electrically powered. Thus electric power transfer is eleven to twelve times more economical than air operation. Guiding principles have been elaborated based on the above conception for calculating the indexes of specific power requirements which simplifies comparisons between mines by making use of the suggested basic mine types.

PAL, Ferenc, dr.

Educational work of the Medical and Sanitary Workers' Union.
Munka 10 no.6:6-7 Je '60.

1. Orvos-Egeszsegugyi Szakszervezet fotitkara.

PAL, FERENC

**NEMETH, Tibor; PAPP, Andras; UVEGESS, Jeno; NYARADY, Ivan; PAL, Ferenc;
BOLEMAN, Eszter**

Fate of tuberculous patients treated with tuberculostatics 5 years after leaving the institute. Orv. hetil. 98 no.30:822-826 28 July 57.

1. Az Orszagos Koranyi Tbc. Intezet (igazgato-foorvos: Seri Istvan dr., tudomanyos vezeto: Sebok Lorand dr.) dservezesi modszer-tani, statisztikai es Tudobelosztalyainak, es az. Allami Fedor Jozsef TBC Gyogyintezet (Igazgato-foorvos: Risko Tibor Dr.) I. sz. Tudobelosztalyanak Kozlemenye.

(TUBERCULOSIS, PULMONARY, ther.
chemother., follow-up (Hun))

HORN, Dezso; TEMESSZENTANDRASI, Guido; NOHRER, Arpad; VARGA, Gyorgy; BERES, Sandor, dr., buntetobiro; TOTH, Anna, SIMONOVITS, Istvan; KOMAR, Andras; PAL, Ferenc, dr.; SOMOGYI, Miklos; SOMOSKOI, Gabor

The 10th Plenary Session of the National Council of Trade Unions.
Munka 11 1956:1-12,29-30 Je '61.

1. Szakszervezetek Orszagos Tanacsanak titkara, es "Munka" szerkesztobizottsagi tab (for Horn, Varga). 2. Fomernok, Ozdi Kohaszati Muvek (for Temesszentandras). 3. Elelmezesipari Dolgozok Szakszervezete elnoke. (for Nohrer). 4. Textilszakszervezet fotikara (for Toth). 5. Egeszsegugyi Miniszter elso helyettese, Budapest. (for Simonovits). 6. Banyaiipari Dolgozok Szakszervezetenek titkara (for Komar). 7. Orvos-Egeszsegugyi Dolgozok Szakszervezetenek fotitkara (for Pal). 8. Szakszervezetek Orszagos Tanacsanak elnoke es Magyar Szocialista Munkaspert Politikai Bizottsaganak Tagja (for Somogyi). 9. Epito-,Fa- es Lpitoanyagipari Dolgozok Szakszervezete fotitkara (for Somoskoi).

PAL, Ferenc, dr.; NYARADYI, Ivan, dr.

Tuberculosis and age. Tuberk. kerdesei 9 no.5:207-209
Oct 56.

1. Orszagos Koranyi Tbc. Intezet (igazgato foorvos:
Dessauer, Pal, dr., Tudomanyos vezeto: Sebok. Lorand, dr.)
szervezesi, modszertani es statisztikai osztalyanak kozlemenye.
(TUBERCULOSIS, statist.
in Hungary, age distribution (Hun))

FAL, Ferenc

Standard designs in civil engineering. Magyar ipar 10 no.8:376-378
'61.

PAL FERENC, Dr.: DEMENY, Eva, Dr.

Changes in age distribution in tuberculosis mortality in Hungary
in the last years. *Nepegeszsegugy* 38 no.7:171-175 July 57.

1. Közlemeny az Orszagos Koranyi Tbo. Intezet (igazgatohelyettes:
Seri Istavan dr., tudomanyos vezető: Sebo Lorand dr.) szervezesi-
modszertani es statisztikai osztalyarol.

(TUBERCULOSIS, statist.

in Hungary, changes in age distribution in mortal. (Hun))

PAL, Gaszton

Application of negative impedances in amplifying two-wired circuits. Pt.2. Magy hir techn ll no.1:17-23 F'60.

1. Beloiannisiz Hivadastechnikai Gyar.

STIEBER, J.; PAL, Gy.

The influence of deep manuring on some morphologic and histological features in wheat straw. Acta agronom Hung 9 no.3/4:425-450. '60.
(EAI 9:7)

1. Institute for Applied Botany and Histogenetics of the Eotvos Lorand University, Budapest. (for Steiber). 2. Agricultural Research Institute of the Hungarian Academy of Sciences, Martonvasar. (for Pal).

(Hungary--Wheat)
(Fertilizers and manures)

HUNGARY

SZALAI, Dezso, PAL, Gyula; Agricultural Research Institute (Mezőgazdasági Kutató Intézet) of MTA [Magyar Tudományos Akadémia — Hungarian Academy of Sciences], Martonvasar.

"Trends in Certain Properties of Culm and Leaf in the F₁ Generation of Triticum-Agropyron Hybrids."

Budapest, Biologiai Közlemények, Vol XI, No 1, 1963, pp 17-28.

Abstract: [Authors' English summary modified] Certain properties of various Triticum-Agropyron hybrids were studied qualitatively and quantitatively. Hybrid vigor was observed in the height of the hybrid plants. The dimensions of the ligules and the dry matter content of the culm were found to be governed by heredity and are transmitted in an intermediate form. Hybrid vigor was observed, in some combinations, with respect to the length of leaf blades and, in most cases, with respect to the length of the sheath and number of productive shoots, and dominant transmission of leaf number was observed in hybrids derived from one of the Agropyron species. The hybrid vigor decreased in vegetative propagation in seven-year old plants of the F₁ generation. Of 18 references, 14 are Eastern European and 4 are Western.

1/1

RITOKNE, SZALAY, Agnes; PAL, Gyula

From the history of bud grafting. Term tud kozl 5 no.5:232-233 M
'61.

1. Magyar Tudományos Akademia Konyvtara, Budapest es Magyar Tudományos
Akademia Mezogazdasagi Kutato Intezete, Martonvasar.

FAJKINE CICER, Ernő. 1941. Győr

Investigation of heterosis phenomenon in the first and following generations of the generative hybrids and grafts of eggfruit varieties. Kertészeti közl. no. 1941. 1-2. 154.

1. Agricultural Research Institute, Hungarian Academy of Sciences, Martonvásár. Director: Dr. Farkas Fajki.

PAL, Gyula; MANDY, Gyorgy

Investigations on the formation and growth of the organs
of eggplant varieties (*Solanum melongena* L.) Botan kozl
50 no.4:147-155 D'63.

1. Magyar Tudományos Akademia Mezogazdasagi Kutato Intezete,
Martonvasar (for Pal). 2. Orszagos Agrobotanikai Intezet,
Tapioszele (for Mandy).

RAJKI, Sandorné, dr.; PAL, Gyula

Biological significance and practical application of generative and vegetative hybridization. Elovilag 6 no.6:32-35 M-D '61.

1. Magyar Tudományos Akademia Mezőgazdasági Kutató Intézete, Martonvásár.

RAJKI, Sandorne; PAL, Gyula

Heterosis investigation in the first generation of generative hybrids and grafts of tomato varieties. Biol kozl 9 no.2:117-128 '61.

1. Magyar Tudomanyos Akademia Mezogazdasagi Kutato Intezete, Martonvasar (Igazgato:Dr.Rajki Sandor).

PAL, I.

"Ontogenetic and Daily Changes in the Absorption of Elements of Mineral Nutrition by Corn";

dissertation for the degree of Candidate of Biological Sciences
(awarded by the Timiryazev Agricultural Academy, 1962)

(Izvestiya Timiryazevskoy Sel'skokhozyaystvennoy Akademii, Moscow, No. 2,
1963, pp 232-236)

IAI, I.

Comparison methods of power economy in coal mines. p.716.

ENERGIA -S ATCISEGNETA. (nem iarsandalko jasi Tudoranyos Ertesulet)
Budapest, Hungary
Vol. 11, no.11/12, Nov./Dec. 1968

Monthly List of East European Acquisitions (MEM) IS., Vol. 5, no.7, July 1968
Encl.

PAL, I.

Possibilities of weighing in foundries. p. 47. (Kohaszati Lapok. Budapest. Vol. 11, no. 4,
Apr. 1956. Ontode, Vol. 7, no. 4.)

See: Inventory list of East European possessions (1941-1945), Vol. 6, no. 2, p. 10, incl.

FAL, I.

Robert Forbath's Hivatali Kémiája (One history for everybody; a book review), p. 511. TUDOMÁNY ÉS TÁRSADALOM. (Társadalmi és Természettudományi Kutató Intézet Vállalat) Budapest. Vol. 113, no. 8, Aug. 1954.

SOURCE: East European Accessions List (EAL), Library of Congress
Vol. 5, no. 6, June 1956

PAL, I. - Vol. 8, no. 4, Apr. 1955 - Magyar Energiagazdasag

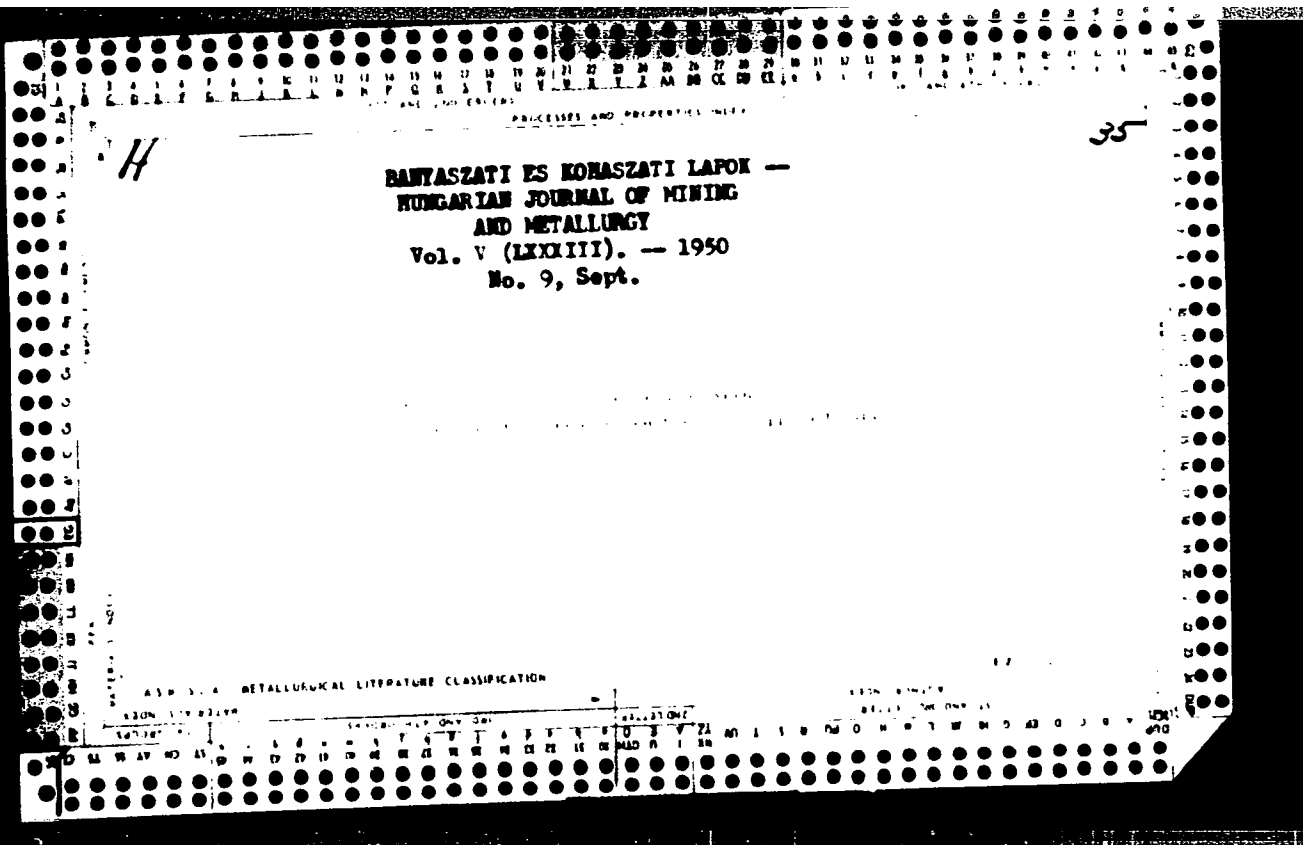
Comparison of economy in the transmission of power by electricity and by compressed air in coal mines. p. 144.

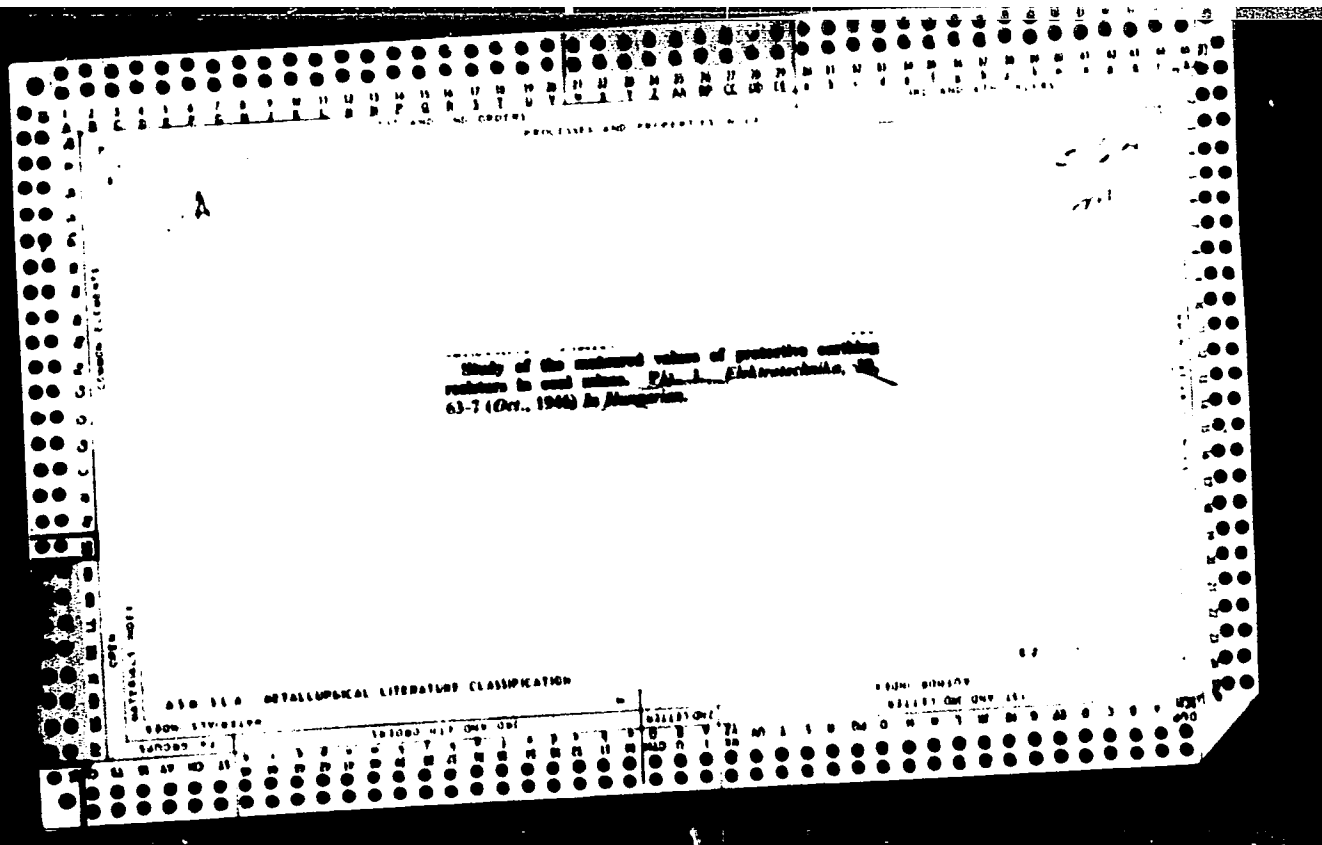
SO: Monthly list of East European Accessions, (EEAL), LC, Vol. 4, No. 9, Sept. 1955
Uncl.

PAL, I.

Loading high-tension cables in mines. p. 486. Vol. 10, No. 9,
Sept. 1955; Banyaszati Lapok.

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





PAL, I.

Pal, I.

"Protection of electrical mining equipment by grounding." p. 225.
(Bányászati Lapok. Vol. 7, no.5, May 1953, Budapest.)

SO: Monthly List of East European Accessions, Vol. 2, no. 9, Library of Congress, September
1953, Encl.

LAKO, Sandor; LIGETI, Istvan; PAL, Illes

Experimental constructions in the service of the 15-year housing
development plan. Magy ep ip 10 no.2:71-75 '61.

PAL, Imre, egyetemi adjunktus

"222 problems in descriptive geometry" by Endre Pethea.
Reviewed by Imre Pal. Szabvany kozl 16 no.5:84 My'64.

1. Technical University of the Construction Industry and
Transportation.

Nuclear Medicine

HUNGARY

GACS, Janos, Dr, KELLER, Laszlo, Dr, PAL, Imre, Dr, TORKO, Janos, Dr; Medical University of Budapest, III. Medical Clinic (director: GERO, Sandor, Dr) (Budapesti Orvostudományi Egyetem, III. Belklinika), and National Atomic Energy Commission, Isotope Institute (director: TETENYI, Pal, Dr) (OAB -- Országos Atomenergiai Bizottság --, Izotop Intézet).

"Study of the Mg^{28} Metabolism of Individuals With Coronary Sclerosis."

Budapest, Orvosi Hetilap, Vol 107, No 35, 28 Aug 66, pages 1644-1645.

Abstract: [Authors' Hungarian summary] The disappearance from the plasma and excretion through the urine of i.v.-administered Mg^{28} was studied in 8 individuals with coronary sclerosis and 7 controls. The excretion of Mg^{28} in the urine was found to be significantly decreased in coronary sclerosis. 2 Hungarian, 12 Western references.

1/1

PAL, Imre; NAGY, Janos, GYORGY, Sandor.

Radioautographic studies on the distribution of $S-35$ -methionine.
Kiserl. orvostud. 16 no.1:75-79 Ja'64.

1. Budapesti Orvostudományi Egyetem Orvosi Fizikai Intézete.

*

~~ISTVAN, Pal~~ PAL; ISTVAN

gpc

HUNG

✓ 67-326 331,386,613,834

Riesz, Ede; Pal Istvan and Konek, László. *Orvosi-élelmiszer-élelmiszeri vizsgálatok a Mátrában.* [Climatological investigation of health resorts in the Mátra Mountains.] *Időjárás*, Budapest, 58(4):197-203, July/Aug. 1954. 18 refs. Russian and French summaries p. 397.

MB-MH—Biologically relevant climatic properties of Mátraháza, Hungary (el. approx. 2000 ft) are outlined (sunshine duration, solar and sky radiation, cloudiness, precipitation, humidity, visibility, pressure, wind conditions, frequency of frontal passages). As a result of a survey made on 100 residents of the Mátraháza sanitarium in the fall of 1952, various changes in their normal, submorbid and morbid functions are outlined. The effect of frontal passages on the condition of patients is considered. *Subject Headings:* 1. Medical climatology 2. Health resorts 3. Mátra Mountains, Hungary.—G.T.

2

PAL, Istvan

Why do plants turn toward the light? Klet tud 18 no.16:499-500 21
Ap '63.

PAL, Istvan

Shoe polish. Elet tud 17 no. 16: Supplement: Tarkatudomány
3 no. 8: 59 22 Ap '62.

PAL, Istvan

A substance which stimulates as well as hinders the growth of
plants. Elet tud 18 no.5:150 3 F '63

PAL, Istvan, dr.

Experiences with microwave therapy of diseases of the articulo-
muscular system. Orv.hetil. 101 no.4:123-126 Ja '60.

1. ▲ Magyar Nephadsereg Egészségügyi Szolgálat.
(JOINTS dis.)
(MUSCLES dis.)
(ELECTROTHERAPY)

FORRAI, Jeno, dr.; PAL, Istvan, dr.

2 cases of "scapular crepitation". Orv.hetil. 101 no.30:1063-1064
24 JI '60.

1. A Magyar Nephadsereg Egesszeguyi Szolgalata.
(RIBS neopl)
(OSTEOMA case reports)
(SCAPULA dis)

PAL, Istvan, dr.; TANAI, Janos, dr.

Contributions to the problem of Tietze's syndrome. Orv.hetil.
101 no.34:1203-1205 21 Ag '60.

1. Magyar Nephadsereg Egesszeguyi Ssolgalata.
(RIBS dis)

FAL, Istvan

The omniscient borax. Elet tud 17 no.10 **supplement:**Tarkatudomány
3 no.5:38 Mr '62.

PAL, Istvan, dr.; TANAI, Janos, dr.

On the diagnostic value of lumbosacral striae. Orv. hetil. 102 no.43:
2033-2034 22 0 '61.

1. Magyar Nephadsereg Egesszegugyi Szolgalata.

(LUMBOSACRAL REGION)

FAL, I. E.

Norms for use in coal mining;
development of material and power norms.
p. 30.
TOBBTERMELES. (Uzemi Tervgazdasagi es
Szervezesi Tudomanyos Egyesulet)
Budapest.
Vol. 10, no. 4, Apr. 1956.

SOURCES: EEAL - LC Oct. 1956. Vol. 5 No. 10

PAL, J Gy.

PAL, J. Gy. - Teaching organization at the Karl Marx University of Economics.
p. 32, Vol. 10, no. 9, Aug. 1966
Társadalmi. (Uzemi Tervezési és Szervezési Tudományos
Egyesület) Budapest.

Organization of machine-tractor stations, p. 39.

SOURCE: East European Accessions List (EEAL) Vol.6, No. 4--April 1967

PAL, Janos, dr.

Some thoughts on the organizational work at the enterprises of the
chemical industry. Munka szemle 6 no.12:12-14 D '62.

PAL, K. :

Equipment for rendering of fat; patents of Emeric Nemeth. Periodica
polytechn eng 4 no.3:321-322 '60. (EEAI 10:6)
(Hungary--Oils and fats)

PAL, K.

"Methods of cleaning vineyards by sorts in Hungary".

p. 76 (Mezhduna Rodnyi Selskokhoziaistvennyi Zhurnal, Vol. 2, No. 2, 1958,
Sofia, Bulgaria).

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 12, Dec. 58.

PAL, K.

"We should save material." p. 11. (TOSK... Vol. 1, no. 1, June 1953, page 11)

SO: Monthly List of East European accessions, vol. 2, #8, Library of Congress
August, 1953, Uncl.

PAL, L.

Statistical analysis of the consumption of electric power in coal mining.

1. 31 (VNIIEK G. Report, Hungary, Vol. 1, No. 1/2, Apr. 1957).

SO: Monthly Index of East European economies (A.M. Vol. 6, p. 11, Nov. 1957).

PAL, L.

"Plasmas and controlled fusion" by David J. Rose, Melville Clark, Jr.
Reviewed by L. Pal. Acta phys Hung 15 no.4:361-362 '63.

HAJOS, György; CSASZAR, Akos; PAL, Laszlo; TURAN, Pal; CORRADI, Keresztely;
KARTESZI, Ferenc; GALLAI, Tibor; GRATZER, György; SCHMIDT, E.
Tamas; RENYI, Alfred; HETYEI, Gabor; BARTFAI, Pal; DEAK, Ervin;
KOVARI, Tamas

Mathematical problems. Mat lapok 13 no.1/2:174-183 '62.

1. "Matematikai Lapok" szerkeszto bizottsagi tagja (for Hajos).
2. "Matematikai Lapok" felelos szerkesztoje (for Turan).
3. "Matematikai Lapok" szerkeszto bizottsagi tagja (for Renyi).

FAL, Iasslo, dr.

Illustration of the pedimetric index by graphical method.
Gyermekgyogyasszat 6 no.10:319-320 Oct 55.

1. Pestmegyei Tanacs VB. XI. Egesszegugyi Oosztalyanak (Foovos:
Dr. Bekes Zoltan) kozlemenye.
(GROWTH, in infant and child
pedimetric index, graphical illust. method)

HUNGARY/Nuclear Physics - Penetration of Charged and Neutral Particles Through Matter. C-6

Abs Jour : Ref Zhur - Fizika, No 12, 1958, No 27026

Author : E. L. Leonard

Inst : Not Given

Title : Certain Problems of Slowing Down of Neutrons

Orig Pub : Magyar tud. akad. Mat. kutato int. kozl., 1956, 1, No 1-2, 41-54

Abstract : Exact expressions are derived for the collision density and for the resonant capture escape probability of neutrons in stationary conditions in the case of a non-absorbing homogeneous moderator. The solution is generalized to include absorbing and inhomogeneous moderator.

Card : 1/1

LENARD PAL

✓ The ferromagnetic resonance of different materials.
 Imre Nagy and Lenard Pal. *Magyar Tudományos Akad.
 Közlem. Fiz. Kémiai Intézetének Közleményei*, 4, 480-81
 (1956).—Ferromagnetic resonance theory is briefly re-
 viewed. The exptl. method was the same as used in pre-
 vious work (*ibid.* 3, 563(1955)). Resonance curves of Fe,
 Ni, magnetite, and Ni ferrite are given. They show the
 absorption and dispersion properties. The g factor was also
 detd. for all 4 materials. They are: Fe 2.08, Ni 2.11, mag-
 netite 2.00, and Ni ferrite 2.17. A few measurements were
 carried out with a test piece of magnetite. It was found
 that the log of the resonance field is proportional to the vol.
 concn.

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The relation of the differential susceptibility of ferro-
 magnetic compounds with hexagonal crystal structure to
 the field intensity in strong magnetic fields. *Acta Phys. (Miskolc)*
 (Miskolc, Hungary) *Acta. Phys. (Miskolc)* 1956
 Institute, Budapest, Hung. *Magyar Tudományos Akad.*
Közlönyei Fiz. Kémiai Tudományok Kéziratos Értékelése
 (1956).—The differential susceptibility of ferromagnetic
 compounds close to the magnetic field condition is most closely
 related to the constants that are characteristic of the magnetic
 anisotropy. If it is assumed that the crystal grains of the
 polycryst. material are independent of one another, and that
 the material shows no plastic deformations and no internal or
 external elastic tensions, the differential susceptibility can
 be estd. in the condition close to satn. An equation is
 derived between hexagonal cryst. structure and the mag-
 netic field intensity in strong magnetic fields. K. Eitner

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HUNGARY / Physical Chemistry. Crystals.

B

Abs Jour: Ref Zhur-Khimiya, No 17, 1958, 56568.

Author : Pal Lenard, Tarnoczi Tivadar.

Inst : Not given.

Title : Temperature Dependence of Cobalt Susceptibility
in a Highly Intensive Magnetic Field.

Orig Pub: Magyar fiz. Folyoirat, 1957, 5, No 1, 29 - 39.

Abstract: Curves with characteristic double peaks were plotted in the study of the temperature dependence of the susceptibility of Co in a highly intensive magnetic field. The temperatures corresponding to the above curves were determined; the data on single crystals coincide with the experimental results obtained for poly-crystals. The effect upon the susceptibility of the phase transformation $\alpha \rightarrow \beta$ was also investigated.

Card 1/1

PAL, L. [Pál, L.]; TARNÓTSI, T. [Tarnóczy, T.].

Temperature dependence of the differential susceptibility of cobalt
in strong magnetic fields. Izv. AN SSSR, Ser. fiz. 21 no. 8:1055-1063
Ag '57. (MIRA 11:3)

1. Tsentral'nyy fizicheskiy issledovatel'skiy institut Vengerskoy AN.
(Magnetic materials) (Ferromagnetism)

HUNGARY Nuclear Physics - Nuclear Technology and Power

C-3

Abs Jour : Ref Eur - Fizika, No 5, 1959, No 10222

Author : Kiss Dezső, Kiss István, Jal Lenard

Inst : -

Title : Scientific Preparation for Work with a First Hungarian
Reactor.

Orig Pub : Fiz. szonda, 1958, 8, No 7, 203-212

Abstract : No abstract

Card : 1/1

HUNGARY/Nuclear Physics - Nuclear Power and Technology

C-8

Abs Jour : Ref Zhur - Fizika, No 12, 1958, No 27122

Author : Pal Lenard, Kiss Dezso, Kiss Istvan

Inst : Not Given

Title : Scientific Preparation for Operation of the First Experimental Atomic Reactor.

Orig Pub : Magyar tud., 1958, 65, No 5, 183-187

Abstract : No abstract

Card : 1/1

PAL, L.

Statistical theory of chain reactions in nuclear reactors. I.
Acta phys Hung 14 no.4:345-355 '62.

1. Tsentralnyy nauchno-issledovatel'skiy institut fiziki, Budapesht.

PAL, L.

Statistical theory of chain reactions in nuclear reactors. II.
Acta phys Hung 14 no.4:357-367 '62.

1. Tsentralnyy nauchno-issledovatel'skiy institut fiziki, Budapesht.

PAL, L.

Statistical theory of chain reactions in nuclear reactors. III.
Acta phys Hung 14 no.4:369-380 '62.

1. Tsentralnyy nauchno-issledovatel'skiy institut fiziki, Budapesht.

PAL, L.

"Nuclear power engineering" by Engel-Thielheim. Reviewed by
L. Pal. Acta phys Hung 15 no.1:81 '62.

PAL, L.

High responsibility of a scientist. Priroda 51 no.9:27-28 S
'62. (MIRA 1:9)

1. Chlen-korrespondent Vengerskoy Akademii nauk.
(Disarmament—Congresses)

PAL, Lenard; KISDINE KOSZO, Eva

Mathematico-statistical problems relating to the measurement of the total effective cross section of thermal neutrons.
Koz fiz kozl MTA 11 & no.1:3-19 163.

1. "A Magyar Tudományos Akademia Kozponti Fizikai Kutato Intezetének Kozlomenyei" szerkeszto bizottsagi tagja (for Pal).

TARNOCZI, Tivadar; PAL, Leonard.

Investigation of the transformation from the antiferromagnetic to the ferromagnetic phase in iron-rhodium alloys. Koz fiz kozl MTA 12 no. 1:3-16 '64.

1. Central Research Institute of Physics, Hungarian Academy of Sciences, Budapest (for Pal).

~~LEHARD, Pál.~~

New solution of the problem of fluctuation of ionisation losses. Vest. Mosk.
un.8 no.6:111-116 Je '53. (MLRA 6:10)

(Ionization)

1. Kafedra magnetizma

FIL, LEND

"Some remarks on the quantum theory of energetic anisotropy of ferromagnetic crystals."
Acta Physica, Budapest, Vol 3, No 3/4, 1954, p. 287

SO: Eastern European Accessions List, Vol 3, No 1, Oct 1964, Lib. of Congress

LEONARD, PAUL

HUNG.

1948. On the Problems of Probability Calculations Occurring
During Nuclear Fusion Investigations. *Mathematicheskiy Sbornik*
International Journal of Mathematics and Mathematical Physics (Leningrad).
Leningrad: *Matematicheskii Institut*, v. 3, no. 1, 1948,
p. 31-45.
Theoretical suggestions for consideration of the disturbance
caused by α -radiation in ionization chambers. Graphs, tables. 3
ref.

Ron L.

PAL, LEONARD

~~XXXXXXXXXXXX~~

Some remarks on the problem of quantum theory of energy
anisotropy of ferromagnetic crystals. Vest.Nesk.un.10
no.10:3-14 0 '55. (MIRA 9:4)

1.Kafedra magnetizma.
(Quantum theory) (Ferromagnetism) (Crystallography)

PAL, L.

On a new method of determining differential susceptibility.
Vest.Mosk. un.10 no.12:49-59 D '55. (MLRA 9:5)

1. Kafedra magnetizma.
(Magnetic measurements) (Electromagnetism)

PAL, LENARD

6105* (Hungarian.) Dependence of Permeability of Magnets Upon the Frequency of the Electromagnetic Microwave Fields. A magneti permeabilitásának frekvencia függése mikrohullámú elektromágneses terekben. Imre Nagy, Lénárd Pál and Dezső Pállyai. Magyar Fizikai Folyóirat, v. 4, no. 4, 1956, p. 359-369.

Investigation in the range of 1000-3000 Mc. on magnetite powder suspended in paraffin.

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HUNGARY/Magnetism - Ferromagnetism

Abs Jour : Referat Zhur - Fizika, No 5, 1957, 11994

APPROVED FOR RELEASE Tuesday, August 01, 2000 CIA-RDP86-00513R001238

Inst : Central Research Institute of Physics, Budapest, Hungary

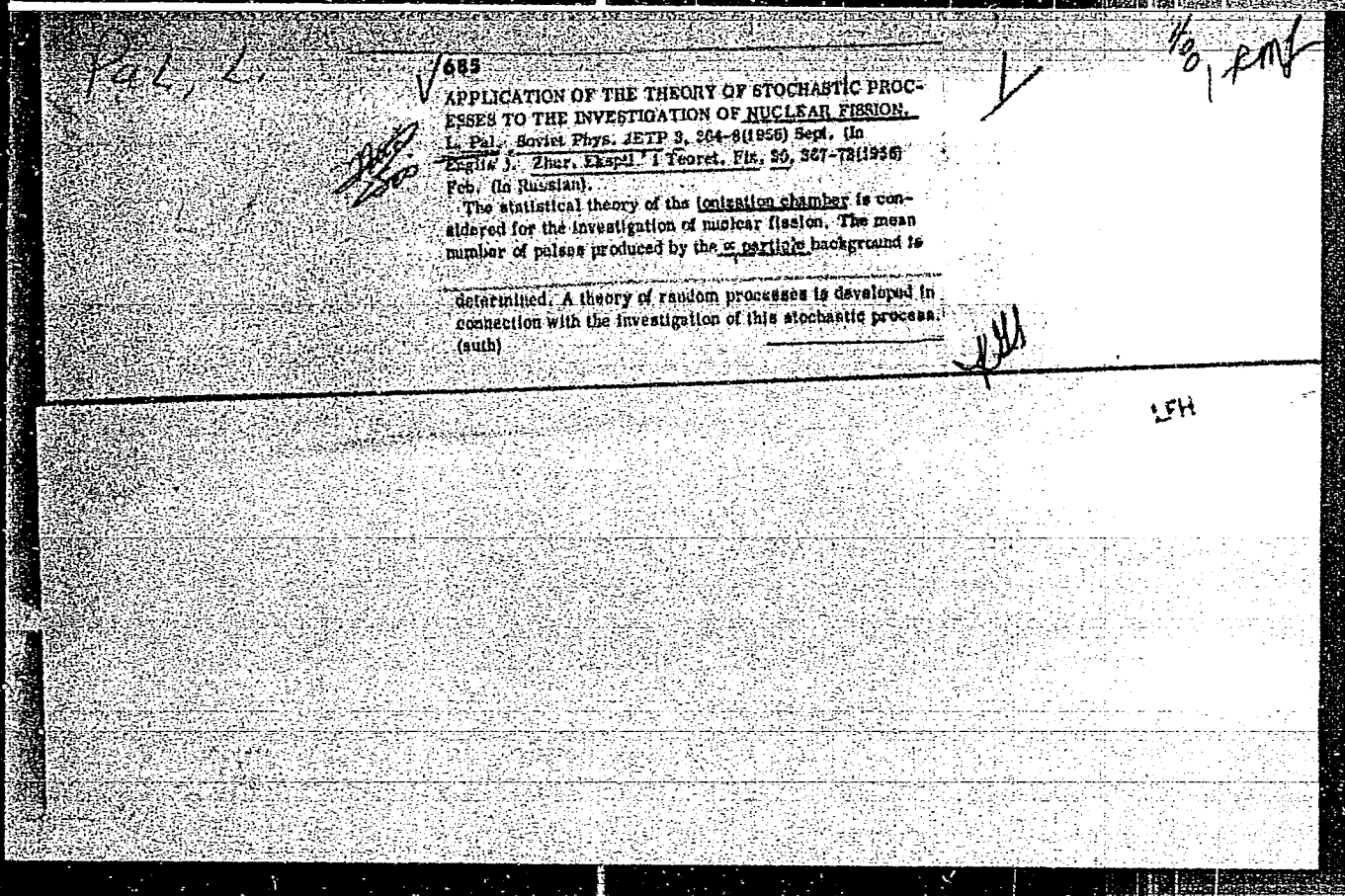
Title : Temperature Dependence of the Differential Susceptibility of Cobalt in Strong Magnetic Fields.

Orig Pub : Acta phys. Acad. sci. hung., 1956, 6, No 2, 225-236

Abstract : Curves with two maximum were obtained for the temperature dependence of the differential susceptibility of cobalt in strong magnetic fields. Various portions of these curves can be explained on the basis of the theory of rotation processes. At a temperature of 294°K, there is a sharp local minimum of differential susceptibility. On the basis of measurements made by Socksmith & Thompson (See Referat Zhur Fizika, 1955, 14271), carried out on a

Card 1/2

Card 2/2



PAL, L.

I-7

HUNGARY / Radiophysics. Radio Measurements.

Abs Jour : Ref Zhur - Fizika, No 5, 1957, No 12585

Author : Nagy, I., Pallagi, D., Pal L.

Inst : Central Research Institute of Physics, Budapest, Hungary.

Title : The Frequency Dependence of the Permeability of Magnetite
Between 1,000 and 3,000 Mc.

Orig Pub : Acta phys. Acad. Sci. hung., 1956, 6, No 2, 341-344.

Abstract : An investigation was made of the magnetic permeability of
the magnetite powder, mixed with paraffin, in the frequen-
cy range from 1000 to 3000 Mc ($\lambda = 30 - 10$ cm) for various
concentrations of magnetite. The powder grains were 10 mi-
crons in size. The permeability was determined from the
result of the measurement of the input impedances of a short-

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PAL, L.

Ferromagnetic semiconductors; ferrites. p. 156. Vol. 6, No. 5
Sept. 1956. FIZIKAI SZEMLE. Budapest, Hungary.

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

HAL, I.; FARKAS, I.; NAGY, I.

Frequency dependence of the permeability of garnetite in microwave electromagnetic fields. p. 15 (Kozlenyev, Budapest, Vol. 20, no. 1/2, 1956)

Handwritten notes:
Magnetic permeability of garnetite
in microwave fields

SC: Monthly List of East European Accessions (SAC) 11, Vol. 6, no. 2, July 1958 Incl.

Pal, L.

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Pál, L. On the theory of stochastic processes in cosmic radiation. *Z. Eksper. Teoret. Fiz.* 30 (1956), 362-366; supplement to 30, no. 2, 7. (Russian. English summary)

10/22
Let $\xi(t)$ be a stochastic process depending on a continuous time parameter and assume that $\xi(t)$ has jumps at certain randomly distributed instants and that $\xi(t)$ varies between consecutive jumps in accordance with some deterministic law. This law is described by means of a function $f(x, u)$ which has the following meaning: If $\xi(t) = x$ then $\xi(t+u) = f(x, u)$ on condition that no jumps occurred in the time interval $[t, t+u]$. If the process is a Markov process then the function $f(x, u)$ must satisfy a functional equation. The Fokker-Plank equations are derived for such a process. This is extended to the case where $\xi(t)$ is a random vector.
E. Lukacs.

PAL, L.

48-8-3/25

AUTHORS: Pal, L., Tarnotsi, T.

TITLE: Differential Susceptibility of Cobalt and Its Dependence on the Temperature in Strong Magnetic Fields (Temperaturnaya zavisimost' differentsial'noy vospriimchivosti kobal'ta v sil'nykh magnitnykh polyakh)

PERIODICAL: Izvestiya AN SSSR Seriya Fizicheskaya, 1957, Vol. 21, Nr 8, pp. 1055 - 1063 (USSR)

ABSTRACT: In the preface to the paper corresponding research executed by various scientists, amongst them von Bloch, Weiss & Forrer, Allen & Constant, Mayers & Sachs-Schmitt, Honda & Masumoto, Edwards & Lipson, and others is referred to. Special attention is diverted here to the research by Hishiyama of Tohoku-University, who is said to have given a correct explanation of the mechanism of the allotropic conversion of cobalt. In the first section of the paper: Methods of measuring, the method of E. Cherlinsky is recommended for the investigation of the differential susceptibility. This method, however, can be applied only with difficulty to small and thin samples. Therefore a new method for this case is proposed here, which is based on a comparison of the

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... shows a local maximum at 440°C and drops rapidly from there onwards, which is explained by the transition of the hexagonal cobalt into the cubic phase. This phenomenon here is put into connection with the electric resistance of the samples and is graphed in diagrams according to the method of E. Cherlinsky. There are 5 figures and 20 references, 2 of which are Slavic.

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Differential Susceptibility of Cobalt and Its Dependence on the Temperature in Strong Magnetic Fields

ASSOCIATION: Central Physics Research Institute of the Hungarian Academy of Sciences (Tsentral'nyy fizicheskiy issledovatel'skiy institut Vengerskoy Akademii nauk)

AVAILABLE: Library of Congress

Card 3/3

PAL, L.; KIS, I.; BATA, L.

Investigations of the moderating parameters of the Dowtherm A at different temperatures. p. 207.

Budapest. Koszonti Fizikai Kutató Intézet. A MAGYAR TUDOMÁNYOS AKADÉMIA KOSZONTI FIZIKAI KUTATÓ INTÉZETÉNEK KÖZLEMÉNYEI, Budapest, Hungary, Vol. 6, No. 4, July/Aug. 1958

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

HUNGARY/Solid State Physics - Effect of Irradiation on Structure and Properties E

Abs Jour : Ref Zhur Fizika, No 4, 1960, 8863

Author : Pal Lenard, Nemeth Geza

Inst :

Title : Statistical Theory of Distortions Produced in the Lattice of a Solid Under the Influence of Fast Particles.

Orig Pub : Magyar tud. akad. Vozp fiz. Kutato int. Kozl., 1958, 6, No 4, 246-261, IV.

Abstract : In the case when neutrons of high energy penetrate into the crystal lattice and the crystal atoms which are set into motion interact with the remaining atoms in accordance with the law of collision of hard spheres, a distribution function is obtained for the number of displaced atoms.

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- 79 -

PAL, L.

Distr: 4E2G(m)

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151/60

Investigation of the order-disorder transformation in FeAl alloys. L. PAL, T. TARNÓCSI. *A Magyar Tudományos Akadémia Központi Fizikai Kutató Intézetének Közleményei*

Handwritten signature or initials.

(Proceedings of the Central Research Institute for Physics of the Hungarian Academy of Sciences). Vol. 7, 1959, No. 5.

pp. 265-276, 11 figs.

The process of order-disorder transformation in FeAl alloys has been studied by measuring magnetic parameters. An explanation is given for the phenomenon called the double Curie point, first observed by Sykes and Evans. The results support the existence of the Fe₁₃Al₂ structure shown by Taylor and Jones.

PAL, Lenard; NEMETH, Geza

On the fluctuation of the slowing-down time of neutrons. Koz fiz
kozl MTA 7 no.6:347-351 '59. (EEAI 9:8)

1. Szilardtestfizikai Laboratorium, Kozponti Fizikai Kutato
Intezet, Magyar Tudomanyos Akademia.
(Neutrons)

HUNGARY/Nuclear Physics - Penetration of Charged and Neutral
Particles Through Matter.

C

Abs Jour : Ref Zhur Fizika, No 4, 1960, 8161

Author : Bekeshi, A., Pal L., Yanoshi, L.

Inst : Central Physics Research Institute Hungarian Academy
of Sciences, Budapest

Title : Methods of Determining Fluctuations of the Energy and
the Angular Scattering of Rapid Ionizing Particles.

Orig Pub : Acta phys. Acad. scient. hung., 1959, 9, No 3, 297-316

Abstract : Methods of determining the fluctuations of the energy and
angular scattering of fast ionizing particles are developed
and critically compared. Particular attention is being paid
to the development of the physical meaning of the listed
approximate methods. General indications are given for the
improvement of the approximations.

Card 1/1

PAL. L

Distr: $\mu E3c$ 2 cys/ $\mu E3d/\mu E2b(v)$

Moderating parameters of Deuterium A at different temperatures. L. Pih. L. Raita, and L. Kim (Central Research Inst. Phys., Helsinki). *Acta Phys. Acad. Sci. Hung.* 10, 173-84 (1960) (in English).—Moderating parameters (for nuclear reactor) of a medium of 20.51% biphenyl and 79.49% diphenyl oxide were tested at different temps. The temp. dependence of the diffusion length is $L_D = 4.002 \exp(0.0014 T)$, the slowing-down length $L_s = 11.94 \pm 0.08$ cm. at 30°. L_s increases considerably at higher temps. E. M. Lohb

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PAL, L.; KISS, I.; BATA, L.

Investigation of the parameters of the Dowtherm A moderator at various temperatures. p. 225.

ENERGIA ES ATOMTECHNIKA. Budapest, Hungary. Vol. 12, no. 4, Apr. 1959.

Monthly List of East European Accessions (EEAI), LC. Vol. 8, No. 9, September 1979
Uncl.

PAL, Lenard, a fizikai tudományek doktora

Commemoration of Joliot-Curie. *Magy.tud.* 66 no.11:571-574 B '59.

(EBAI 9:4)

(Joliot, Frederic)

(Physicists, French)

PAL, L.; SZABO, F.; GYIMESI, Z.; BATA, L.; TURI, L.

Investigation of the SR-1 heterogeneous subcritical assembly. Acta
phys Hung 12 no.3:205-219 '60. (EPAI 10:5)

1. Central'nyy issledovatel'skiy institut fiziki AN Vengrii,
Budapest. Predstavleno L.Janoshi.
(Uranium) (Neutrons) (Nuclear reactors)

PAL, Lenard (Budapest)

Ten years of the Central Research Institute of Physics. *Magy tud 68*
no.9:529-536 '61.

1. Lev. tag, intezeti igazgato h., Koszonti Fizikai Kutato Intezet,
Budapest.

(Hungarian Academy of Sciences)
(Hungary—Physics)

PAL, Lenard, Kossuth-díjas, egyetemi tanár

Magnetic properties of solid bodies. Természetudományok
131-134. M. 1965.

1. Corresponding Member, Hungarian Academy of Sciences, Budapest.

LEINDLER, L. (Szeged); PAL, L.G. (Budapest)

Data on the convergence of partial sums in orthogonal series.
Acta math Szeged 24 no.3/4:228-230 '63.

1. Submitted October 24, 1962.

PAL, Lasalo Gyorgy

A problem in the theory of series. Mat lapok 12 no.1/2:38-43
'61

PAL, M.; KALLAY, L.; KRALOVANSZKY, P.

"Hungarian Products Containing Cobalamine for Feeding Hogs and Poultry",
P. 206, (ELEMESZESI IPAR, Vol. 8, No. 7, July 1954, Budapest, Hungary)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 3, No. 12,
Dec. 1954, Uncl.

Pal, E.

Informative investigations on the multiplication rate of
Escherichia coli n. 86.

Budapest, Hungary. Alföldveszélyesvíz Intezet. 1958. évi jelentés, 1-2. sz.

Monthly list of East European accession (1958-1960, 1961 ~~XXXXXXXXXXXXXXXXXXXX~~
1962, 1963, 1964, 1965)

Incl.

PAL, Majlat

Identification of alkaloids and purity testing of their
salts. 3. Morphine. Acta pharm. Hung. 36 no.1:13-19 J '66.

1. Submitted June 4, 1965.

CSABA, Karoly, dr.; NIKODEMUSZ, Istvan, dr.; D. PAL, Margit, dr.

Experiences in inspecting meat products. *Hepeszessegugy* 44
no.10:301-304 0 '63.

1. Közlemeny az Országos Élelmeszes- és Taplalkozastudományi
Intezetből (igazgató: Tarjan Robert dr. egyetemi tanár).
(FOOD INSPECTION) (MEAT) (FOOD POISONING)
(LEGISLATION, MEDICAL) (SALMONELLA FOOD POISONING)

PAL, Menyharth

On the determination of the sulfur content of heparin. Acta
pharm. Hung. 36 no.1:5-9 J ' 66

1. Submitted March 31, 1965.

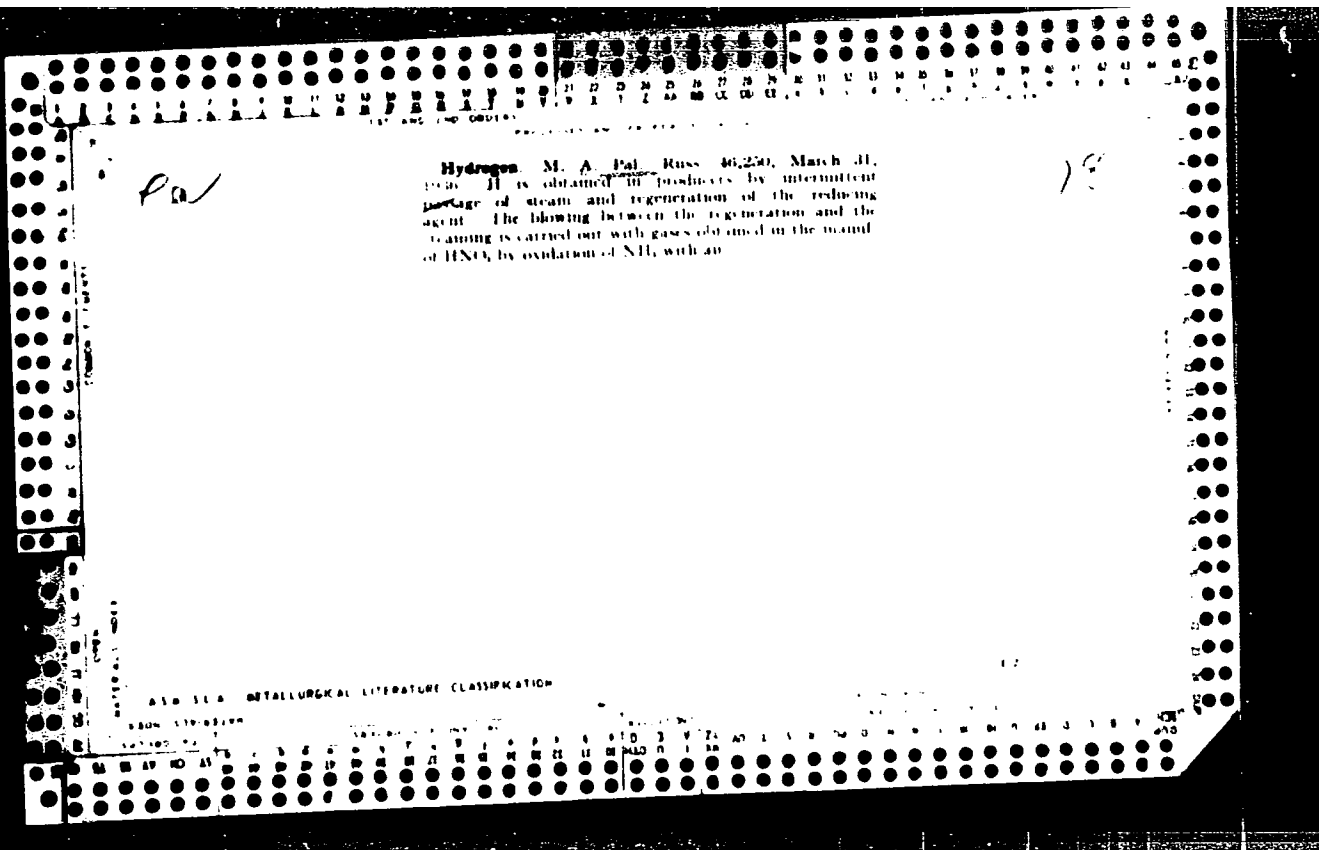
PAL, Mesarosh [Pal, Meszaros], doktor

Methods for the multiple-group classification of cars on draw-out tracks. Zhel. dor. transp. 45 no.11:85-88 N '63.

(MIRA 16:12)

PAL, Mihaly (Budapest); KULOS, Janos (Budapest)

forum of innovators. Ujit lap 16 no.14:30-31 25 .1 '64.



LUPOLOVER, A.M.; PAL', M.M.; STRUTINA, S.Z.

Conducting mass examination of the population in city medical
centers. Sov.zdrav. 18 no.12:6-9 '59. (MIRA 13:4)

1. Is klinicheskoy bol'nitsy (glavnyy vrach Yu.N. Gordon) TSen-
tral'nogo rayona Odessy.
(PREVENTIVE MEDICINE)

ACCESSION NR: AP4029253

S/0125/64/000/004/0015/0020

AUTHOR: Brodskiy, A. Ya. (Candidate of technical sciences); Pal, R.
(Candidate of technical sciences)

TITLE: Effect of titanium on the weldability of low-alloy 14G2T steel

SOURCE: Avtomaticheskaya svarka, no. 4, 1964, 15-20

TOPIC TAGS: steel, low alloy steel, 14G2T steel, 14G2 steel, 14G2T steel
weldability, weldability

ABSTRACT: The weldability of 14G2T steel containing 0.06-0.15% Ti made at the Zaporozhstal' plant in basic open-hearth oxygen furnaces was experimentally investigated. The steel rolled at over 1,000C could not be used for welded structures due to its low toughness. However, after normalization (at 900-910C for 4 minutes per 1 mm thickness) the steel acquired high mechanical characteristics (tabulated), which varied but little with the plate thickness up to 40 mm,

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