

BASINSKA, Halina; ORYLSKI, Zenon; PERKOWSKI, Tadeusz

On the solubility of potassium-bismuth ferricyanide $\text{KBi}[\text{Fe}(\text{CN})_6]$.
Chem anal 7 no.5:911-914 '62.

1. Department of Inorganic Chemistry, N.Copernicus University, Torun.

BASINSKA, Halina; ORYLSKI, Zenon; CHARASZKIEWICZ, Aleksandra

Solubility of bismuth ferrocyanide $\text{Bi}_4 [\text{Fe} (\text{CN})_6]_3$.
Chem anal 8 no.3:473-474 '63.

1. Katedra Chemii Nieorganicznej, Uniwersytet M. Kopernika,
Torun.

BASINSKA, Halina; MILKE, Helena; ORYLSKI, Zenon; RYCHLIK, Wieslaw

Studies on the adaptation of alkali ferrocyanide and ferricyanide in volumetric analysis. *Studia Tor chemia* 5 no. 1: 67-77 '64.

1. Department of Inorganic Chemistry, N. Copernicus University, Torun, and Department of General Chemistry, School of Agriculture, Olsztyn.

ACC NR: AP6034980

SOURCE CODE: UR/0361/66/000/003/0083/0089

AUTHOR: Orynbasarov, M.

ORG: none

TITLE: First boundary value problem for the heat conduction equation, when the boundary of the region has two corner points

SOURCE: AN KazSSR. Izvestiya. Seriya fiziko-matematicheskaya, no. 3, 1966, 83-89

TOPIC TAGS: heat conduction, boundary value problem, differential equation, successive approximation

ABSTRACT: The problem consists of solving the equation

$$\frac{\partial U}{\partial t} = a^2 \left(\frac{\partial^2 U}{\partial x^2} + \frac{\partial^2 U}{\partial y^2} \right); \quad (0 < x < l; y(x) < y < \infty; t > 0), \quad (1)$$

satisfying the initial condition

$$U(x, y, t) |_{t=0} = 0 \quad (2)$$

and the boundary conditions

$$U(x, y, t) |_{x=0} = \varphi(y, t), \quad (3)$$

$$U(x, y, t) |_{x=l} = \psi(y, t), \quad (4)$$

$$U(x, y, t) |_{c} = f(x, y, t), \quad (5)$$

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ACC NR: AP6034980

and of obtaining a solution in the form

$$\begin{aligned}
 U(x, y, t) = & \int_0^t d\tau \int_0^\infty \varphi(\eta, \tau) \sum_{n=-\infty}^{\infty} G(P_n, \bar{Q}, t-\tau) d\eta + \int_0^t d\tau \int_0^\infty \psi(\eta, \tau) \sum_{n=-\infty}^{\infty} G(P_n, \bar{Q}', t-\tau) d\eta \\
 & + \int_0^t d\tau \int_C \mu(s_Q, \tau) \sum_{n=-\infty}^{\infty} [G(P_n, Q, t-\tau) - G(P_n', Q, t-\tau)] ds_Q,
 \end{aligned} \tag{6}$$

where

$$G(P, Q, t-\tau) = \frac{r_{PQ} \cos(r_{PQ}, n_Q)}{4\alpha^2 n (t-\tau)^2} \exp\left[-\frac{r_{PQ}^2}{4\alpha^2(t-\tau)}\right]$$

The boundary of the region in which the function $U(x, y, t)$ is defined has the form of a curve with two sharp cusps (Fig. 1). Conditions for the existence of a solution are obtained. Orig. art. has: 1 figure and 20 formulas.

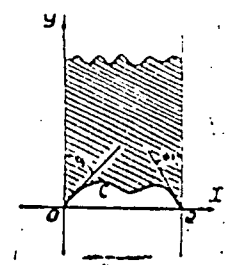


Fig. 1. Diagram of region where heat conduction problem is solved

SUB CODE: 12/ SUBM DATE: 00/ ORIG REF: 002

Card 2/2

CATEGORY : Microbiology

APS. JOUR. : Ref Zhur-Biologiya, No.4, 1959, 14775

AUTHOR : Grynbayev, S.

INST. : Inst. of Microbiology and Virology, AN KazSSR

TITLE : Actinomycetes-antagonists of agents of Late
Late Deer Scab of potatoes.

ORIG. PUB. : Tr. In-ta mikrobiol. i virusol. AN KazSSR,
1958, 2, 51-60

SUMMARY : About 50% of the actinomyces cultured isolated from different soils of the suburban districts of the city of Alma-ata proved to be antagonistic to agents of root rot of potatoes - *Bacterium sepedonicum*. Most of the were found in soils underneath alfalfa and orchard grass, and the fewest in soils under potatoes, onions, and wheat. The activity of the culture liquid of the isolated actinomycetes-antagonists depended strictly on the

CARD: 1/3

Country :
CATEGORY :

ABS. JOUR. :

14975

AUTHOR :
INST. :
TITLE :

ORIG. PUB. :

ABSTRACT : sources of carbon and nitrogen nutrition. It was established that the antibiotic substance of the investigated actinomycetes rapidly entered the tubers and concentrated in the peel and the aqueous juices, not losing its bactericidal properties by this. The most active strain was utilized to combat root rot in field; potato infection decreased 2-3 times. Pre-sowing treatment of potato tubers with liquid culture of strain also decreased

CARD: 2/3

COUNTRY :
CATEGORY :

ABS. JOUR. :

1975

AUTHOR :
INST. :
TITLE :

ORIG. PUB. :

ABSTRACT :

germination and stimulated growth and develop
ment. -- A. Ye. Kosmachev

CARD:

3/3

14

ORYNBAYEV, S., Candidate of Biol Sci (diss) -- "Actinomycetes antagonistic to the causative agent of potato ring rot, and investigations of the possibility of their practical application". Alma-Ata, 1959. 18 pp (Kazakh State U in S. M Kirov), 150 copies (KL, No 22, 1959, 112)

ORYNBAYEV, S.

NO(1)
AUTHORS:

Afrikyan, E. F., Kuchayeva, A. G., Candidates of Biological Sciences

TITLE:

Use of Antibiotics in Plant Cultivation (Primeneniye anti- biotikov v rasteniyevodstve).

PERIODICAL:

Vestnik Akademii nauk SSSR, 1959, Nr 1, pp 142-143 (USSR)

ABSTRACT:

A conference dealing with this subject took place in Yerevan from 6 to 13 October, 1958; it had been called by the Institute mikrobiologii Akademii nauk SSSR (Microbiological Institute of the Academy of Sciences USSR), the Vsesoyuznyy nauchnyy sel'skokhozyaystvennyy mikrobiologicheskiy VASKHIM (All-Union Institute for Agricultural Microbiology of VASKHIM) and the Sektor mikrobiologii Akademii nauk SSSR (Department for Microbiology of the Academy of Sciences of the USSR). Prof. S. Orynbayev spoke about microbe metabolites which promote the development of higher plants. E. K. Pidoplichko reported on investigations of several years' duration carried out by Ukrainian mycologists on soil fungus flora and its utilization in the fight against agricultural plant diseases. I. A. Fillov, S. Ya. Kuznetsov dealt with the utilization of the fungus Trichoderma in fighting the diseases of cotton bushes, potatoes and cereals and the utilization of Trichoderma in the production of antibiotics. E. O. Mirzabekyan reported on investigations against the action of potato wart disease and diploidia in maize. G. I. Gerasimov, Y. K. Karmina spoke about the utilization of the antibiotic-like antagonist in fighting potato ring rot and nematode bacteria in cabbage. O. K. Kublanovskaya reported on the effect of preparations from cultures of streptococci to prevent wilt of the cotton bush. Y. P. Lunanov, L. K. Afrikyan, M. M. Kozlovskaya, Ye. M. Mikhlin spoke about the successful utilization of several bacteria against diseases of vegetables, cabbages and potato wilt. M. P. Lukatskiy, G. G. Shirkov, A. D. Kalbanyan dealt with the utilization of epiphytic microflora in fighting several diseases in plants. M. P. Zakharchuk, K. I. Indimskaya, Ye. P. Miroshnikova, Ye. E. Osetiryan mentioned results obtained in investigations of phytoantibiotics as well as its utilization in fighting diseases occurring in cotton bushes and beans. E. M. G. Zhurav, Ye. P. Prizantova, K. G. Gerasimova, M. A. Kabanova tried the effect of antibiotics preparations on tea bushes. M. P. Orynbayev described the investigations of decorative plants. Ye. M. Mikhlin spoke about the production of the preparations "griseofulvin" and "trichotectin" and their effect on fungus carriers of diseases in cabbage, wheat and water melons.

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Card 3/4

A. G. Kuchayeva reported on results achieved in the utilization of antibiotics against unpaired wilt rot. Ye. P. Irzal'skiy, J. R. Buzanina, M. D. Kulikovskaya dealt with the formation of phytopathogen forms of bacteria resistant to antibiotics. E. A. Vinogradova, K. E. Agay described a method of rapid determination of the effect of antibiotics on plants. The results of the work carried out in the field in the USSR insufficient. The organization of an industrial production of antibiotics and microbe preparations for the purpose of their large-scale practical introduction in agriculture was pointed out as necessary. The necessity of an intensification of joint investigation of the growth stimuli and the development of plants by microbial origin was further pointed out. The importance of coordination of the far purpose of research and utilization of antibiotics in plant breeding was emphasized as well as the holding of periodical conferences dealing with this problem.

ORYNBAYEV, S.

Actinomyces antagonistic to the causative agent of potato ring rot
and the possibility of their practical utilization. Report No.2.

Trudy Inst. mikrobiol. i virus. AN Kazakh. SSR 3:148-155 '59.

(MIRA 13:2)

(POTATO ROT) (ACTINOMYCES)

SEYKETOV, G.Sh.; ORYNBAYEV, S.

Physiology of Trichoderma fungi with antagonistic properties. Trudy
Inst. mikrobiol. i virus. AN Kazakh. SSR 4:114-123 '61.

(MIRA 14:4)

(FUNGI—PHYSIOLOGY)

ABRAMOVA, N.V.; ORYNBAYEV, S.

Morphological and cytological changes in the mycelium of the Trichoderma fungus during its development. Trudy Inst. mikrobiol. i virus. AN Kazakh. SSR 4:130-139 '61. (MIRA 14:4)
(MYCELIUM)

ORYNBAYEV, S.

Cytology of the fungus Rhizoctonia solani. Trudy Inst.mikrobiol.i
virus.AN Kazkah.SSR 6:37-41 '62. (MIRA 15:8)
(RHIZOCTONIA)

ORYNBAYEV, T.

Terminal ileitis. Zdrav. Kazakh. 21 no.6:18-20 '61. (MIRA 15:2)

1. Iz III kafedry khirurgii (zav. - prof. V.I.Kazanskiy) Tsentral'nogo
instituta usovershenstvovaniya vrachey.
(ILEUM...DISEASES)

ORYSHAKA, V.A.

The IK-4M flax-pulling combine. *Biul. tekhn.-ekon. inform. Gos. nauch.-
issl. inst. nauch. i tekhn. inform. no. 1:65-68 '63.* (MIRA 16:2)
(Combines (Agricultural machinery))

KHEYFETS, Yu.I., inzh.; ORYSHICH, I.V., inzh.

Effect of aging conditions on the amount of residual austenite
in fuel system equipment parts. Metalloved.i term.obr.met.
no.4:59-61 Ap '62. (MIRA 15.4)
(Steel--Hardening) (Metals, Effect of temperature on)

MITITELU, C., ing.; MINUT, V., ing.; ORZA, N., ing.

Output obtained at the plant for fiber recovery from the
waste water of the Reconstructia Pulp and Paper Mill.
Cel hirtie 12 no. 12: 407-417 D '63.

ORZACH, S.

7

1-Phenylacetylcarbinol. VIII. S. Baur, L. Masler and S. Orzach (Slovenská akad. vied, Bratislava, Czech.) *Chem. zvesti* 12, 687-9 (1958) (German summary); cf. C.A. 53, 10100d. — The occurrence of racemization of optically active 1-PhCH(OH)Ac, m. 123-4°, $[\alpha]_D^{25}$ -811.08°, and 1-1-phenyl-1-methoxy-2-propanone (I), m. 107-9°, $[\alpha]_D^{25}$ -150.69°, in KOH-MeOH, measured by rotary polarimeter, indicates that no enol compd. is formed, and that I does not undergo racemization since even after a long time it does not lose its optical activity. Jan Miska.

5
2-May

JW
1/1
Distr: 4E2c(j)

JJ

ORZECZOWSKA, A.

A conference in Lublin on the reading of the professional press
and books. Przegl kolej mechan 11 no. 12:320 5 '64.



ORZECHOWSKA, A.

Railroad Olympics for the mechanical service workers, p. 223

PRZEGLAD KOLEJOWY MECHANICZNY: (Wydawnictwa Komunikacyjne)
Warszawa, Poland
Vol 11, No. 7, July 1959

Monthly List of East European Accessions Index (EEAI), LC, Vol. 8, No. 11,
November 1959
Uncl.

ORZECZOWKA, HWA.

Distr: 4E2c(j)/4E3d 7

A rapid method of acenaphthene determination (in pure and technical product). Jan Jurdziewicz, Józef Issaczur, Anna Orzechowska, and Józef Kzasa (Zakład Przerobu Węglipochodnych Inst. Chem. Przerobki Węgla Zabrze, Poland). *Chem. Anal. (Warsaw)* 3, 147-56(1958) (English summary).—A method of acenaphthene (I) detn in pure or tech. product, based on the relation between content and its m. or f. points, is described. Two formulas are derived: $P = 1.4 \cdot t_m - 33$ and $P = 1.5 \cdot t_f - 42.6$ where P = I content in %, t_m , and t_f = the m.ps. and f.ps. of the samples. The formulas were valid for mixts. contg. I 50-100%. Error of the detns. was 0.15 to $\pm 1\%$. The detn. time was not above 20 min. The method can be applicable in plant labs. for det. I in coal-tar products. The results of I detns. by the picrate method and the method described were compared for 54 samples contg. variable amts. of I. M.ps. were detd. in the Thiele tube; f.ps. with the aid of the Zhukov tube. The latter detns. were made on the basis of Polish Standard PN/C-04018. Z. Kurtzka

7
2-May
2

ORZECHOWSKA, Aniola; SZCZYGLOWA, Maria

Vitamin levels in the blood and urine and their influence on the treatment of skin diseases. Przegl. dermat., warsz. 7 (1957):141-151 Mar-Apr 57.

1. Kliniki Dermatologicznej, A. M. w Warszawie Dyrektor: prof. dr J. Jablonska. 2. Zaklad Biologii zywienia PZH w Warszawie. Kierownik: prof. dr A. Szczygiel. Adres: Monsieur le Secretaire General de L'Union internationale contre le Peril Venerien 2, quai Saint-Pierre, Cannes (Alpes-Maritimes)- France.

(SKIN DIS. , metab.

vitamin levels in blood & urine, ther. significance (Pol))

(AMIA, intern.

in blood & urine in skin dis., ther. significance (Pol))

ORZECHOWSKA, B.

Guzowska, B. ; Orzechowska, B.; Kunicki-Golfinger, W.

"The Properties of Onion (Allium Cepa L.)" Pt. 1. p. 175
(Acta Microbiologica Polonica, Vol. 1, No. 3, 1952, Warszawa)

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

✓ Comparison of two methods of a preliminary isolation of
inclusions of oxides of low-carbon steels by electrolysis.
J. Parys, J. Orzechowska, and W. A. Sacculisani (Inst.
Met. Gliwice, Poland). *Prace Inst. Metalurg. Hut-
niczej* 9, 181-5 (1957). The authors compared the method
of Kharin and Koch with the method by Eitzner as modi-
fied by Lukaszewicz-Duwanowa, Lova, and Szanin and
found that both methods when applied to nonalloyed steel
are in fair agreement. The first method is an improved
method of Treig and Benedicks. F. J. Hendel

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DM RS //

FORYST, Juliusz, doc. dr; ORE KI, Kazimierz, mgr inz.; ORZECZOWSKA, J.,
mgr inz.; ZELAZKIEWICZ, Jerzy

Testing physicochemical properties of inclusions originating
during deoxidizing steel by Fe-Si and Al deoxidizers. Biul
inf inst metal zel no.1:12-15 '64.

1. Department of Physical Chemistry of Steels of the Institute
of Iron Metallurgy, Gliwice.

JANIAKOWA, Alina; ORZECZOWSKA, Krystyna

Histamine level in atherosclerosis. Polskie arch.med.wewn. 30
no.7:981-984 '60.

1. Z III Kliniki Chorob Wewnętrznych A.M. we Wrocławiu Kierownik:
prof. dr med. B.Szczeklik i z Zakładu Farmakologii A.M. we
Wrocławiu Kierownik Zakładu: prof. dr J.Hano.
(ARTERIOSCLEROSIS blood)
(HISTAMINE blood)

ORZECZOWSKA, Krystyna

Monoamine oxidase inhibitors. Postepy hig. med. dosw. 16 no.3:401-431
'62.

1. Z Zakladu Farmakologii AM we Wroclawiu Kierownik: prof. dr
J. Hano.

(MONOAMINE OXIDASE INHIBITORS)

[POLAND

MIKLASZEWSKA, Jadwiga, INDYKOWA, Maria, and ORZECZOWSKA, Krystyna. Division of Internal Diseases (Oddzial Wewnetrzny) Hospital (Szpital) im. Stefana Zeromskiego in Krakow-Nowa Huta (Director: Docent, Dr. J. MIKLASZEWSKA)

"A Reticulum Cell Sarcoma with Symptoms of Hypersplenism and Panagglutination."

Warsaw-Krakow, Przeład Lekarski, Vol 19, Ser II, No 3, [24 Mar] 63, pp 189-191.

Abstract: [Authors' English summary] A description is given of a reticulum cell sarcoma in a 27-year old single woman. The disease took the very rarely encountered form of splenomegaly, with enlargement of only one of the peripheral lymph nodes. Besides hemolytic anemia and the hemorrhagic diathesis, the patient also exhibited panagglutination, a positive Combs reaction, and a moderate degree of beta hyperglobulinaemia. The ten references contain two each French and English, and the others Polish.

[1/1

KOTLAREK-HAUS, Sabina; HALAWA, Bogumil; ORZECZOWSKA, Krystyna

Steroid diabetes and diseases of the hematopoietic system.

Pol. tyg. lek. 18 no.46:1720-1724 11 N°63

1. Z III Kliniki Chorob Wewnetrznych AM we Wroclawiu; kierownik: prof.dr. Edward Szczeklik.

*

MIKLASZEWSKA, Jadwiga, doc. dr.; DOLEZAL, Marian; SZMIGIEL, Zbigniew;
ORZECHOWSKA, Krystyna

Hemagglutination reaction in the detection of leukocyte antibodies. Pol. tyg. lek. 20 no.9:301-303 1 Mr'65.

1. Ze Szpitala im. St. Zeromskiego; Oddzial Wewnetrzny Nowa huta w Krakowie (kierownik: doc. dr. J. Miklaszewska); z Kliniki Chorob Zakaznych Akademii Medycznej w Krakowie (kierownik: prof. dr. Wl. Fejkiel) i z III Kliniki Chorob Wewnetrznych Akademii Medycznej w Krakowie (kierownik: prof. dr. J. Aleksandrowicz).

ORZECHOWSKI F.

ORZECHOWSKI F. Remembrances from tourist excursions. n. 15
TURYSTA Warszawa, Poland
Vol. 21 No. 12 Dec. 1955

SOURCE: East European Accessions List (FIAL) Vol. 5 No. 6 June 1956

18(5,7)

POL/39-59-4-5/14

AUTHOR: Orzechowski, Henryk, Engineer

TITLE: Definition of the Length of the Cylindrical Part of a Floating Roll Mandrel During the Drawing of Tubes

PERIODICAL: Hutnik, 1959, Nr 4, pp 158-160 (Poland)

ABSTRACT: Floating mandrels are still in the experimental stage. In Britain and Germany they are used for drawing small copper and brass tubes. They combine many of the advantages of short mandrels and of the process where no mandrel is used at all. The importance of the length of the mandrel's cylindrical part lies in this, that if it is too long drawing power is increased and the tube may break, whereas if it is too short it may altogether slip from the tube during drawing. The remainder of this brief article is devoted to the derivation of a formula permitting the calculation of the length of that part of the mandrel. The author arrives at the formula:

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$$l = \frac{D + d}{2\alpha} \cdot \beta$$

701/39-59-4-5/14

Definition of the Length of the Cylindrical Part of a Floating Roll Mandrel During the Drawing of Tubes

where D is the diameter of the leading part of the mandrel, d is the diameter of the cylindrical working part of the mandrel, l_1 is the length of the conical part of the mandrel and B is an abbreviation for

$\frac{tg \alpha - f}{f(1 + ftg \alpha)}$ where α is the degree of inclination of the conical part of the mandrel, f is the coefficient of friction of the tube against the conical part of the mandrel and tg is nowhere defined by the author. The author points out that his formula is not entirely accurate due to the fact that he has taken f to be equivalent to f_1 in the course of his derivation, f_1 being the coefficient of friction of the tube against the cylindrical part of the mandrel. Experiments carried out at the PMR in Wroclaw showed that the length of the cylindrical part of a floating mandrel depends on the coefficient of friction. There are 2 diagrams and 4 references, 1 of which is Polish

Card 2/3

POI 39-59-4-5 '14

Definition of the Length of the Cylindrical Part of a Floating
Roll Mandrel During the Drawing of Tubes

and 3 Soviet

ASSOCIATION: PMiR, Wroclaw



Card 3/3

P/043/61/000/002/001/001
A223/A126

AUTHOR: Orzechowski, Henryk, Engineer
TITLE: Drawing of tubes with movable mandrel
PERIODICAL: Wiadomości Hutnicze, no. 2, 1961, 47-50

TEXT: The article describes the method of drawing nonferrous metal tubes with a movable mandrel. The factors which guide the choice of the tube production method are output and productivity. The output is the relation between the weight of the finished product or semi-product and the original weight of the material before processing, and is expressed by the formula

$$U_c = \left(1 - \frac{a}{L_1}\right) \left(1 - \frac{a}{L_2}\right) \dots \left(1 - \frac{a}{L_n}\right) \cdot \left(1 - \frac{b}{L_n + 1}\right) \quad (1)$$

where L_1, L_2, L_n, L_{n+1} are the length of tube after cutting and before pointing; a , the length of pointed tube end and b , the length of the cut tube end. The productivity can be expressed in meters of drawn tube per given time and is given by the formula

$$W = V \cdot \frac{t_m}{t_m + t_p} \quad \text{m/min} \quad (2)$$

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Drawing of tubes with movable mandrel

P/043/61/000/002/001/001
A223/A126

where V is the drawing speed in m/min; t_m , the machining time in min, and t_p the preparation time for processing in min. By substituting $t_m = \frac{l}{V}$ where l is the length of drawn tube, the above formula becomes

$$W = \frac{V \cdot l}{V \cdot t_p + l} \quad (3)$$

High output and productivity indices are of considerable importance in the production of small-diameter tubing where several passages are required. Non-ferrous metal tubing can be manufactured by 1) short-mandrel drawing and 2) without mandrel. Drawing with short mandrel produces a smooth surface finish and allows a uniform diameter reduction, but the production process takes more time. In drawing without a mandrel the tube wall thickness reduction is negligible and the inner surface coarse. The method of drawing tubes with a movable mandrel, which combines the advantages of the above two described methods, is widely used in England for drawing small-diameter non-ferrous metal tubing. The drawing with movable mandrel may be carried out on a drawbench which can have a length of up to 60 m and a drawing speed of 120 m/min., or on a drum-drawbench with a diameter of up to 1.5 m and a speed of 200 m/min. In conclusion the author states that, although drawing with movable mandrel is an economical method for producing small-diameter non-ferrous

Card 2/3

Drawing of tubes with movable mandrel

P/043/61/000/002/001/001
A223/A126

metal tubing, the process has certain drawbacks since it entails adherence to certain specific conditions and the use of modern machines and equipment. There are 5 figures and 4 Soviet-bloc references.

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Card 3/3

ORZECZOWSKI, Henryk, inz.

"Green light" for experiment research laboratories. Rudy i metale 8
no.3:111-112 Mr '63.

ORZECZOWSKI, Henryk, inż.

Annealing of bronze tubes. Rudy i metale 8 no. 5: 152-
159 My '63.

ORZECHOWSKI, Henryk, mgr inz.

Metal flow during extrusion. Rudy i metale 9 no.11:593-600
N '64.

ORZECHOWSKI, Jerzy

development of the department of Soil Mechanics during the last
twenty-year period. Known laws and their restricted use.

Basic laws of soil mechanics. 1941, 1944

Safety coefficient of slope stability. 1941, 1943

1. Department of Soil Mechanics of the Technical University, Poznan.

ORZECZOWSKI, Jerzy; PRZYSTANSKI, Jerzy

Laboratory research on the state of density of sands. Budown
ladowe Poznan no.6:39-60 '64.

1. Department of Soil Mechanics of the Technical University,
Poznan.

ORZECZOWSKI, Jerzy; KOSTRZEFSKI, Włodzimierz

Physical and mechanical characteristics as well as the mineralogical composition of the Pliocene loams of the Poznan area. Budowniactwo i Geotechnika Poznan no.6:61-82 '64.

1. Department of Soil Mechanics of the Technical University, Poznan.

ORZECZOWSKI, Jerzy, mgr. (Gdynia)

Development of liberal and protectionist merchant marines. Tech gosp
morska 11 no.5:132-133 '61.

ORZECZOWSKI, Jerzy, mgr.

The forecast situation on the freight market of tankers in 1962. Tech
gosp morska 11 no.11:329-330 '61.

1. "Polfracht", Gdynia.

ORZECZOWSKI, Jerzy, doc. inz.; PRZYSTANSKI, Jerzy, mgr inz.

Studies on the bearing capacity of a short pile in a bundle. Archiw hydrotech 9 no.3:455-470 '62.

1. Katedra Mechaniki Gruntow, Politechnika, Poznan,
ul. Curie-Sklodowskiej 5.

ORZECHOWSKI, J., mgr.; REJEWSKI, B., mgr.

The tramp freight market in 1961. Technika gosp morska 12 : 6.3 71-73
Mr '62.

1. "Polfrecht", Gdynia

GRZECHOWSKI, Jerzy, mgr (Gdynia)

Sea transportation between the ports of northwestern Europe.
Tech gosp morska 12 no. 7/8:194-196 J1-Ag '62.

ORZECZOWSKI, K.; HOFFMAN, P.

Mining and processing of sulfur in Poland, p. 394.

NOVA TECHNIKA. (Ceskoslovenska vedecky-technicke spolecnost)
Praha, Czechoslovakia
No. 9, Sept. 1959

Monthly List of East European Accessions (EEAI), LC, Vol. 8, No. 11
Nov. 1959
Uncl.

ORZECZOWSKI, K., inż.; GOSCICKI, T., inż.

Sulfur mines and processing plants in Tarnobrzeg. Przegl mech
20 no.19/20:586-589 '61.

1. Kopalnie i Zakłady Przetwórcze Siarki, Tarnobrzeg.

ORZECZOWSKI, Marian

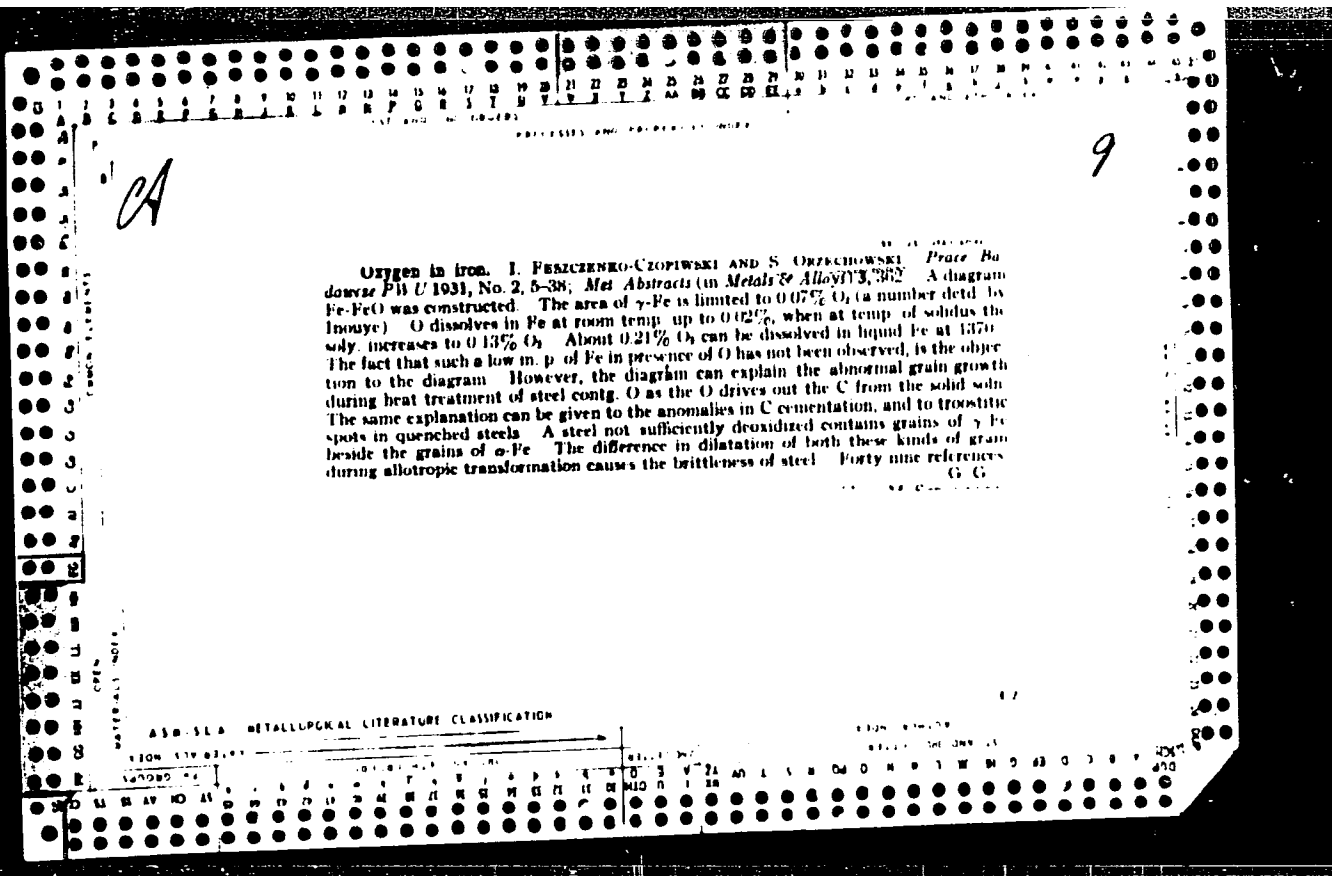
40th anniversary of Silesian insurrections; scientific session
in Katowice, June 13-14, 1961. Nauka Pol 9 no.4:191-196 O-D '61.

1. Uniwersytet Wroclawski.

ORZEGHOWSKI, Renigiusz, mgr.

Quality marks in the dairy industry. Normalizacja 29 no.11/12:
523-525 '61.

(Poland--Dairy products)



ORzechowski, ST.

POLON

1964* Problems of the McQuaid Test and of Austenite Grain Growth. Zagadnienia próby Mc Quaida i wzrostu ziarna austenity. (Polish.) St. Orzechowski. Prace Instytutu Metaloznawstwa i Hutnictwa, v. 7, no. 2-4, 1966, p. 164-178 + 8 plates.

It is shown that in fine-grain steels the McQuaid grain may vary during treatment, and the tendency of austenite grain to grow may increase under certain hot working conditions or as a result of heat treatment. Conditions favoring the coarsening of grains and heat treatment necessary, to re-establish original fine grain, are determined. Micrographs, tables, graphs. 35 ref.

Orzechowski, S.

~~Properties of chromium steel for carburizing of type 15H(CO)~~
S. Orzechowski and C. Gawin (*Prac. Inst. Miniat. Hutn.*, 1936, 8:
417-464). The requirements, particularly for yield strength, of
the PN, H 84029 standard for Cr steel for carburizing are excessive.
Tempering at ~200° following double hardening, is the funda-
mental condition to secure high impact strength but does not affect
elongation and reduction of area. The influences of the second
hardening process on the properties of the steel and their correlation
with structural changes are analyzed.
J. S. C.

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PRB MK

Orzechowski

Prace Instytutu
Metalniczyen
Nr 1, 1958

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Distr: 4E3d

S. Orzechowski and H. Chelminska

INVESTIGATIONS OF COOLING PROPERTIES OF HARDENING OILS

Summary

Investigations were made of seven types of mineral hardening oils, with regard to establish a rapid and simple method of determining cooling properties of oils, for receiving and control purposes of oils in industrial hardening workshops. Trials were made with previously

elements (H and h) depend on the diameter of the test piece, and of the relative distance of the considered point from its axis. On the base of results obtained by Russell's method the investigated oils were divided into three groups comprising different cooling properties. As well

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— Cooling properties of hardening oils, S. Orzechowski and H. Chelminska. *Prace Inst. Hutnik.* 10, 17-27 (1955) (English summary).—Seven mineral hardening oils were used to establish a rapid and simple method for predicting the cooling properties of oils used for hardening. The sp. gr., C residue, Engler viscosity at 50°, flash point, fire point, acid no., and coke content of these oils were, resp.: (A) 0.899, 0.16%, 3.4°, 196°, 213°, 0.11, 0.097%; (B) 0.901, 0.42%, 2.7°, 184°, 205°, 0.23, 0.17%; (C) 0.914, 0.16%, 3.6°, 200°, 225°, 0.054, 0.14%; (D) 0.887, 0.18%, 2.5°, 200°, 223°, 0.15, 0.18%; (E) 0.895, 0.06%, 1.8°, 170°, 188°, 0.03, 0.15%; (F) 0.874, 0.13%, 1.3°, 121°, 139°, 0.056, 0.18%; (G) 0.900, 0.15%, 2.2°, 178°, 202°, 0.12, 0.16%. The heat transfer coeff. was defined by the Grossmann-Asimov method (cf. G., *et al.*, *C.A.* 32, 3738; 37, 1068). Test cylinders with polished surfaces and varying diams. (20, 25, 30, 35, 45, and 60 mm.), but with a const. diam. to length ratio of 1:3, were prep'd. from rolled or forged bars of 35 HM Cr-Mo steel contg. C 0.32, Mn 0.08, Cr 0.96, and Mo 0.17%. The expil. results were highly scattered and are considerably higher than those given by Grossmann. The cooling intensity coeff. *H* was not const. for a given cooling medium. The results were checked by the Russell method (cf. R., *et al.*, *Iron Steel Inst.* (London) *Spec. Rept.* No. 36, 25, 34 (1945)) in order to det. the relation between *H* and the ratio *r/b* (*r* = the distance of a given point from the axis, *b* = diam. of specimen) and were calcd. for *r/b* = 0, 0.5, and 0.9. These data showed better correlation, agreed with those of Grossmann within a very narrow range, and enabled the grouping of the oils. Thus, oils A, B, C, and D are rated equally as poor cooling media, B and C are somewhat better for use on specimens of 20 and

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25 mm. in diam. F is a highly effective cooling oil giving highest *H* values under all exptl. conditions. It has been successfully used in hardening vehicle parts and can also be used in workshops for hardening tools and small construction elements. Results of testing by an improved calorimetric method (5-sec. or Gill method, *et al.*, *Tool Steels*, 1944 (*C.A.* 38, 2821⁹) were also not satisfactory. Cylindrical specimens, 25.4 mm. in diam. and 63.5 mm. long, and a ball, 3 mm. in diam., made of heat-resistant steel contg. 22% Ni and 22% Cr, and a Ag ball were heated to 800° in air and immersed in an H₂O calorimeter of 20° wall temp., and 30° initial oil temp. for 5-25 sec. The results obtained were scattered, which was probably due to a thin layer of cinders deposited on the steel through oxidation. With Ag specimens the scatter of the results starts at >15 or 20 sec. Exptl. conditions excluded the effect of inaccurate detn. of starting time, of the course of the 2nd cooling phase and of the flashing of the oil after immersion of the test specimen. It is suggested to refine the Gill method, to measure the time required for removal of half of the heat of the ball, and to discard the other two methods following a review and discussion of their characteristics. A method for calcg. *H* values is given. 23 references. Mordera Medwid

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Ermd

ORZECOWSKI, St.

Problem of the grain growth of austenite in fine-grained aluminum
denitrated steels. Biul inf inst metal zel no.1:11-16 '63.

1. Institute of Iron Metallurgy, Gliwice.

S/137/63/000/002/029/034
A006/A101

AUTHORS: Orzechowski, St., Gawin, C.

TITLE: The austenite grain and temper brittleness in a range of 250 - 400°C

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 2, 1963, 66, abstract 2I375
("Prace inst. hutn.", 1962, v. 14, no. 3, 137 - 149, Polish; summaries in Russian and English)

TEXT: The authors investigated the effect of austenite grain size upon a_k of low-tempered chrome-manganese steels (about 0.2% C, 0.3% Si, 1% Mn, 1% Cr) with admixture of Ti (about 0.1%) and Al (0.4 kg/ton of steel) and Cr-Ni-steels. Literature data on the fact that Ti and Al eliminate temper brittleness of Cr-Mn steel in the 250 - 400°C range, were not confirmed. Ti and Al securing fine grains in the investigated steels, according to McQued (Mak-Kved) do not fully remove the proneness of these steels to temper brittleness, although they reduce somewhat same. The effect of the size of the actual austenite grain was not single-valued, although smaller grain size is no doubt more favorable. The investigated Cr-Ni steel, type 12KhN3, was half teemed without Al and half with

Card 1/3

The austenite grain and...

S/137/63/000/002/029/034
A006/A101

addition of 1.2 kg Al per 1 ton of steel. The investigation was made for the purpose of determining the causes of the positive effect of Al in 12XH3 (12KhN3) steel at 350°C: 1) whether this is due to small grain size according to McQued, 2) small size of actual austenite grains or 3) whether the Al nitrides play a decisive part. Quenching was performed from various temperatures (825, 875, 925, 1,000°C in water) for the purpose of changing the size of actual austenite grains; tempering was carried out within a range of 200 - 500°C. It is shown that Al admixtures, refining the grain according to McQued, reduce the temperature of transition from brittle to ductile failure, but do not improve a_k of the steel in the critical temperature range and even somewhat impair same at lower temperatures. In the range over the critical grain refining according to McQued the effect upon a_k is not single-valued (either positive or negative). Changes in the size of actual austenite grains within a range of no. 8.5 - 1, have not a single-valued effect upon a_k of the steel in the critical temperature range, but exert a decisive effect in the range below the critical one. In such a manner, a reduction of the proneness to temper brittleness in the range of 250 - 400°C does not take place because Al admixtures refine the grains according to McQued but, on the contrary, the smaller grains according to McQued and a reduced prone-

Card 2/3

The austenite grain and...

S/137/63/000/002/029/034
A006/A101

ness to temper brittleness are the results of the effect of the same process - i.e. binding of N_2 or the presence of AlN separations. The investigated Cr-Mn steels even with admixtures of Al and Ti were more prone to temper brittleness in the 250 - 400°C range than 12KhN3 steel melted without any admixtures. There are 13 references.

G. Rymashevskiy

[Abstracter's note: Complete translation]

Card 3/3

ORZECHOWSKI, Stanislaw, prof.

Normalizing with utilization of rolling temperature. Wiad
hut 19 no.2:47-52 P '63.

ORZHEKHOVSKIY, S. [Orzechowski, S.] (Pol'skaya Narodnaya Respublika)

The McQuaid test of steel. Standartizatsiia 27 no.10:26-29
0 '63. (MIRA 16:11)

ORZECHOWSKI, W.

"Transportation of Standard Gauge Cars on Narrow Gauge Lines," Przegląd Kolejowy-Przewozowy. No. 5, Warsaw, WK, May 1956.

ORZECZOWSKI, Wladyslaw, mgr inz.

New draft of the brake instructions. Przegl kolej mechan 13
no.6:177-179 Je '62.

ORZECZOWSKI, Wladyslaw, mgr. inz.

Percentage diagrams of the breaking weight of rail vehicles.
Przepl kolej mechan 14 no.4:106-108 Ap '62.

ORZECZOWSKI, Wladyslaw

Servicing and maintenance of brakes on trains under winter conditions. Przegl kolej mechan 10 [i.e.15] no.11:329-333 N°63.

1. Centralny Ośrodek Badań i Rozwoju Techniki Kolejowej,
Warszawa.

ORZECHOWSKI, Z.

Mickiewicz and maps made by Domeyko. p. 397. PRZEGLAD GEODEZYJNY.
(Zwiazdk Niernicznych Rzeczypospolitej. Polskiej) Warszawa. Vol. 11,
no. 11, Nov. 1955.

So. East European Accessions List. Vol. 5, no. 1, Jan. 1956

ORZECZOWSKI, Z.

Industrial Safety and Hygiene in the work of agricultural
surveying. p. 144. Vol. 12, no. 4, Apr. 1956 Warszawa

PRZEGLAD GEODEZYJNY

SOURCE: East European Accession List (EEAL) Library of Congress
Vol. 5, no. 8, August 1956

ORZECZOWSKI, Z.

Preservation and conservation of maps. p. 180.
Vol. 12, no. 5, May 1956 Warszawa

PRZEGLAD GEODEZYJNY

SOURCE: East European Accession List (EEAL) Library of Congress
Vol. 5, no. 8, August 1956

ORZECZOWSKI, Z.

Excursion of students of the Lodz Polytechnic within the scope of the Mutual Exchange Program with the German Democratic Republic. Ciepl masz przeplyw no.42:56-57 '62.

P/522/62/000/042/001/002
D262/D308

AUTHOR: Orzechowski, Zdzisław, Doctor of Engineering, Docent

TITLE: Test bed for the investigation of fuel injectors
for gas turbine engines

SOURCE: Łódź. Politechnika. Katedra Ciepłych Maszyn.
Ciepłe maszyny przepływowe, no. 42, 1962, 7-15

TEXT: The author describes the following main assemblies of the universal type test bed, designed by the Department of Heat Engines, for investigation of stream and atomization parameters (macroscopic properties and microscopic structure) of fuel injectors: test bed housing; injector seat; fuel installation; aspirating ventilator for removal of fuel mist; fuel cooling installation; a device for measuring the fuel flow; a device for measuring the degree of zone uniformity; a device for measuring the apex angle of the stream; a device for measuring atomization parameters by the microphotographic method, which is at present being developed; additional equipment which includes switches, fuel pumps and remotely con-

Card 1/2

Test bed for the investigation ...

P/522/62/000/042/001/002
D262/D308

trolled fuel level indicator for feeding tanks. There are 4 figures.

ASSOCIATION: Katedra Ciepłych Maszyn Przepływowych PŁ. Pracownia
 Komór Spalania (Department of Turbine Heat Engines
 of Łódź Polytechnic. Combustion Chambers Laboratory)

Card 2/2

ORZECZOWSKI, Zdzislaw, doc. dr inz.; ZIELINSKI, Lucjan, mgr inz.

Comparative method of measuring the air distribution into the individual zones of gas turbine combustion chambers. Ciepl masz przeplyw no.47/48: 39-46 '63.

1. Kierownik Pracowni Spalania i Wymiany Ciepła, Katedra Ciepłych Maszyn Przepływowych, Politechnika, Łódź (for Orzechowski). 2. Starszy konstruktor, Katedra Ciepłych Maszyn Przepływowych, Politechnika, Łódź (for Zielinski).

SIKORA, Leopold; STRYSLEWSKA, Halina; CRZEL, Eugeniusz

Experiments in minimizing the finishing time of rolled sections.
Probl proc; nat mazzyn 13 no.2:56-58 F 65.

1. Institute of Iron Metallurgy, Gliwice.

ORZEL, K.

"What Trolling Really Is." P. 22, (GOSPODARKA RYBNA, Vol. 5,
No. 9, Sept. 1953, Warszawa, Poland.)

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

ORZEL, K.

"Eel Culture in Rivers." p. 20, (GOSPODARKA RYBNA, Vol. 6, No. 2, Feb. 1954. Warszawa, Poland.)

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

ORZEL, K.

"Development of a Fry Culture Station in Olszowka." p. 21, (GOSPODARKA RYBNA, Vol. 6, No. 2, Feb. 1954. Warszawa, Poland.)

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

ORZEL, K.

"From the Polish Anglers Association in the Rzeszow District." p. 21,
(GOSPODARKA RYBNA, Vol. 6, No. 2, Feb. 1954. Warszawa, Poland.)

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

ORZEL, K.

"Institute of Pond Biology of the Polish Academy of Sciences." p. 22,
(GOSPODARKA RYBNA, Vol. 6, No. 2, Feb. 1954. Warszawa, Poland.)

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

ORZEL, K.

"First Faculty of Fishing Economy." p. 22, (GOSPODARKA RYBNA, Vol. 6,
No. 2, Feb. 1954. Warszawa, Poland.)

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

ORZEL, K.

"Tasks of Establishments of the Fish Industry in 1954." p. 23, (GOSPODARKA RYBNA, Vol. 6, No. 2, Feb. 1954. Warszawa, Poland.)

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

ORZEL, M

Fire-proof finishes based on urea and phosphates. M. Orzel
(Text Inst. Wash., 1953, No. 1, 17-18). The method described
for fire-proofing cellulose fabrics is based on the use of urea and
diammonium phosphate (2 : 1 molar ratio; 1 : 1 by weight), the
impregnating agent being stable to washing. Good results are
obtained by applying 15-18% of the agent. Loss of tensile strength
of the fabric and loss of fire-fastness during washing due to ion-
exchange are avoided by incorporating into the impregnating
solution a pre-condensate, and by washing the fabric in a non-
alkaline wash-liquor and in softened water. When washing with
soap in ordinary water, the fabric is rinsed in aq. NH₄Cl.

J. TEXT. INST. (H.B.C.)

ORZEL, M

"Trends of progress in finishing processes of the textile industry." p. 48
(Przemysl Wlokienniczy, Vol. 7, No. 2, Feb. 1953. Lodz)

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

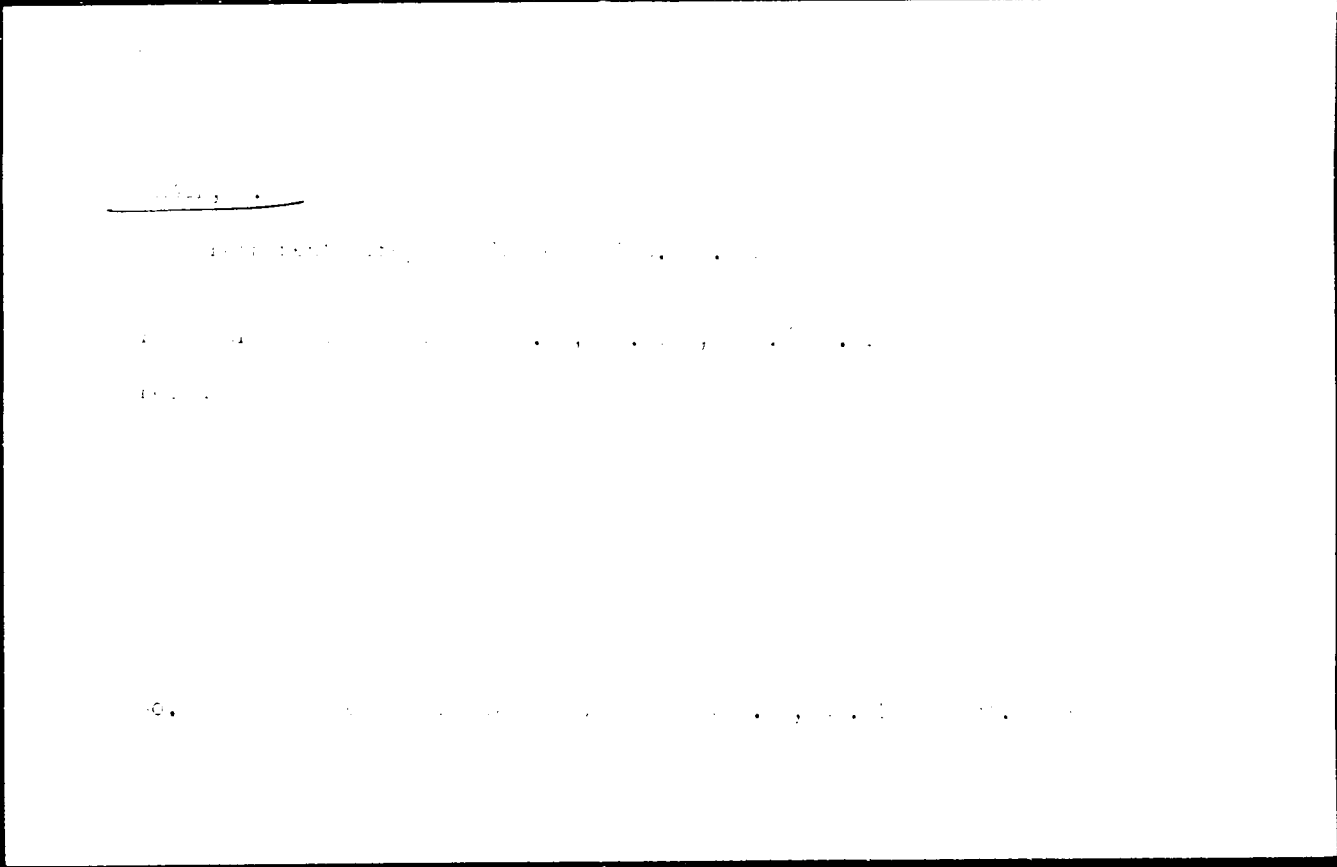
ORZEL, M

Orzel, M.; Rozentel, S

"A poor edition of a good book." p. 272

From life of the Association of Engineers and Technicians of the Textile Industry in
Lodz. p. 275 (Przemysl Klockienny, Vol. 7, N. 11/12, Nov./Dec., 1953, Lodz)

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



PRZE, P.

The impregnation of cotton fabrics against insects. Buletyn Wlok.

p. 13 (Przemysl Wlokienniczy. Vol. 10, no. 7, July 1958. Lodz, Poland)

Monthly Index of East European Accessions (EMAJ) IC. Vol. 7, no. 2,
February 1958

POLAND/Chemical Technology. Chemical Products and Their
Application. Safety Engineering. Sanitary Engineering. H-6

Abstr Jour: Ref Zhur-Khir., No 13, 1958, 43802.

Author : Orzel Mieczyslaw.

Inst :

Title : Fire-Resistant Fabrics in Labor Protection.

Orig Pub: Ochrona pract, 1956, 10, No 10, 24-25.

Abstract: Manufacturing procedures and properties of fire-resistant cotton fabrics impregnated with a stable composition of ammonium phosphate, urea and thermosettable resins. The advantageous properties of the fabrics include their flameless charring, slight increase (up to 15%) in weight on impregnation, permeability and low shrinkage (less than 3%) on laundering. Their disadvantages are decreased

Card : 1/2

PCLAND/Chemical Technology. Chemical Products and Their
Application. Safety Engineering. Sanitary
Engineering.

H-6

Abs Jour: Ref Zhur-Khim., No 13, 1958, 43802.

mechanical strength and the necessity of restoring
the fire-resistant properties after laundering.

Card : 2/2

POLAND/Chemical Technology. Chemical Products and Their
Application, Part 4. - Dyeing and Chemical Treatment
of Textile Materials. H

Abs Jour: Referat. Zhurnal Khimiya, No 21, 1958, 72718.

Author : M. Orzel.

Inst : ~~"Inst. Wlokiennictwa"~~

Title : Indelible and Insecticide Sizes Based on Cellulose
Solutions.

Orig Pub: Prezm. włókienniczy, 1957, 11, No 12, Biul. Inst.
włókiennictwa, 23-24.

Abstract: The process of making preparation (A) of viscous
fiber wastes (W) for dressing cotton fabrics is des-
cribed. 25 kg of W, 100 kg of urea, 210 kg of
50%-ual $Zn(O\text{Na})_2$ solution and 665 kg of water are
taken for preparing 1,000 kg of A. DDF emulsion

Card : 1/2

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LEGKUN, Jaroslaw A. (Lwow); ORZEL, M. [translator]

Photochemical changes in dyed and natural cellulose fabrics.
Przeł wlokien 16 no.12:640-648 D '62.

GRZEL-FICHTEL, Anna
ORZEL-FICHTEL, Anna

Two cases of hemispasms of the lower lip in children. Pediat.
polska 29 no.6:625-626 June 54.

1. Z Miejskiego Szpitala Dziecięcego we Wrocławiu. Ordynator:
dr. med. J. Godlewski.

(LIPS, diseases,
hemispasms in child.)

(LIPS, diseases,
hemispasm in child. of lower lips)

(SPASM,
hemispasm of lower lips in child.)

ORZELSKI, Lucjan; SEMCZUK, Boleslaw

Laryngological procedures and pulmonary vital capacity.
Pol. tyg. lek. 19 no. 28:1091-1093 13-20 J1'64

1. Z Kliniki Otolaryngologicznej Akademii Medycznej w Lub-
linie; kierownik: prof. dr. Benedykt Dy.owski.

ORZEPOWSKI, S.

Measurement of electric and non-electric quantities in revolving machine parts by the use of wireless. p 88.

FORMIANY, AUTOMATYKA, KONTROLA. (Naczelna Organizacja Techniczna)
Warszawa, Poland. Vol. 5, no. 3, Mar. 1959.

Monthly list of East European Accession (EEAL) LC, Vol. 8, no. 7, July 1959

Uncl.

P/034/60/000/003/002/001
A222/A026

AUTHOR: Orzepowski, Stanisław, Engineer

TITEL: The Use of Transistor Transmitters for Testing Physical Magnitudes
in Revolving Parts of High-Speed Machines

PERIODICAL: Pomiary-Automatyka-Kontrola, 1960, No. 3, pp. 96-99

TEXT: The author describes transistor transmitters used for measuring the temperatures in high-speed electrical machines which he developed in tests carried out at Dział Badawczo-Doświadczalny (Research and Experimental Department) of Zakłady Wytwórcze Maszyn Elektrycznych (Electric Machinery Plant) in Wrocław (For pertinent experience compiled on heavy low-speed electric machines reference is made to the author's article in Pomiary-Automatyka-Kontrola, 1959, No. 3, p 88). One of the prototypes of transistor transmitters used in the test is described: embedded in a resin block, the transmitter weighed 45 grams; the pack of batteries weighed 60 grams. The assembly was fastened to the rotor by means of a steel strip. A reduction in dimensions and weight to about one-third of the above data is expected due to improvements in design. The transmitter operated on a carrier frequency of 3-6 mc and a feed voltage of 6 v. The transmitters used were made by Zakład Elektroniki PAN (Department of Electronics, Polish Acad
Card 1/3

P/034/60/000/003/002/005
A222/A026

The Use of Transistor Transmitters for Testing Physical Magnitudes in Revolving Parts of High-Speed Machines

demmy of Sciences) in Warsaw. Test runs showed that continued rotation at 500 g (2,000 rpm at a rotor diameter of 20 cm) did not influence mechanical and electrical properties of the transmitter. Since this transmitter operated on the basis of frequency shift induced by the resistance variation of a gauge, the stability of oscillator frequency at constant resistance was a criterion in testing the efficiency. It has been established that the frequency is not influenced by mechanical overload, magnetic fields of the machine and the proximity of iron mass, while variations in ambient temperature and in feed voltage are influencing factors. As far as the influence of feed voltage is concerned, it has been established that 1) the slope of the battery discharge curve for elevated temperature is exactly the same as that for ambient temperature, and 2) suppression of the raised temperature results in voltage restored to a magnitude as if the battery were continuously discharged at ambient temperature. The variation in battery voltage due to temperature is negligible (1mv/1°C). The final dependence of relative generator frequency error is a function of the gauge resistor, under the assumption that the permissible voltage drop of the supply battery is 0.008 v/h per cell (4 cells). The influence of ambient temperature on generator frequency is such that the influence is rather high at low gauge re-
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A222/A02*

The Use of Transistor Transmitters for Testing Physical Magnitudes in Revolving Parts of High-Speed Machines

sistances and reaches a nearly constant value at gauge resistances higher than 40 k Ω . Further it has been found out that the magnitude of temperature influence on the transmitter does not vary within the limits of assumed feed voltage variation and, vice versa, a change in the ambient temperature does not influence the magnitude of transmitter frequency variation due to a change in feed voltage. Thus, both sources of error may be deemed independent and the errors summed algebraically. There are 10 figures

ASSOCIATION: Dział Badawczo-Doświadczalny, Dolnośląskie Zakłady Wytwarzania Maszyn Elektrycznych M-5 (Research and Experimental Department Lower Silesian Electric Machinery Plant M5) Wrocław.

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Card 3/3

P/034/61/000/012/003/003
D265/D305

AUTHOR: Orzepowski, Stanisław, Engineer

TITLE: Application of transistorized radio-transmitters for measuring the change of physical parameters on rotating machines

PERIODICAL: Pomiary, Automatyka, Kontrola,¹ no.12, 1961, 493-495

TEXT: The method of direct measurement of physical quantities in rotating machines by means of rotating radio-transmitters was developed in the Dział badawczo-doświadczalny zakładów M-5, Wrocław, (Research and Development Department of M-5 Works in Wrocław). The measuring instruments consist of the transistorized radio-transmitter, encapsulated in polyester resin and strapped to the rotating armature of the machine under test, together with a battery and a small antenna. Either the amplitude or the frequency of the high-frequency oscillations generated in the transmitter are modulated by the voltage which is received by the receiver and after simplification can be read off directly on the screen of a cathode ray

Card 1/2