"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

TRYBOWSKI, Czesław

Is the Rabka health resort humid? Szczechowiat no.10:224-226 O '64.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

TRYBOWSKI, Czeslaw

A congress of fellows alumni. Czasopismo geograficzne 32 no.1: 107-109 '61.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

TRYBOWSKI, C.

Galanthus nivalis L. Wszechswiat no.3:84 Mr '62.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

EXCERPTA MEDICA Sec 15 Vol 12/4 Chest Diseases Apr 59

911. EARLY RESULTS OF RESECTION OF LUNG TISSUE - Wczesne wyniki resekcji tkanki płucnej - Trybowski W. and Woźniewski Z. Odd. Torakochir. Sanat. MSW, Otwocke - PROBL. LEK. 1958, 5/1 (36-42) Tables 2

In the light of a series of 39 patients, the authors describe the indications for resection therapy and early results in the treatment of pulmonary tb. The favourable results should be emphasized - there were no fatal cases and no symptoms of bronchial fistula.

Dobrowolski - Warsaw (XV, 9)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

TRYBOWSKI, Witold

History of the Polish Scientific Society for the Study on Tuberculosis.
Polski tygod. lek. 17 no.26:1044-1046 25 Je '62.
(TUBERCULOSIS hist) (SOCIETIES MEDICAL hist)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

TRYBULA, E

POLAND / Chemical Technology. Chemical Products and Their Applications. Chemical Processing of Natural Gases and Petroleum. Motor and Rocket Fuel Lubricants.

Abs Jour: Ref Zhur-Khimiya, No 3, 1959, 9659.

Author : Trybula, E.
Inst : Not Given.
Title : Losses of Petroleum Products.

Orig Pub: Wiadom. naft., 1958, 4, No 6, 139-141.

Abstract: A review, containing characterizations of a number of factors influencing the extent of liquid fuel losses under storage conditions; [illegible] description of methods for determining [illegible] the most important means of con- [illegible] M. -- Ya. Satunovskiy.

Card 1/1

186

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

P/014/62/041/001/002/004
D204/D304

AUTHOR: Trybuła, Eugeniusz

TITLE: The chemistry of lubricant additives

PERIODICAL: Przemysł chemiczny, v. 41, no. 1, 1962, 24 - 27

TEXT: Additives to lubricating oils are classified into (a) oxidation and corrosion inhibitors, (b) compounds lowering the freezing point, (c) compounds raising the viscosity, (d) detergents, (e) compounds improving the lubricating properties and (f) anti-foaming agents. The purpose and action of each type of additive is very briefly stated and a few examples are given in each category. Figures are quoted for the production of lubricant additives in the U.S.A. over the period 1955 - 1960. Research in this field in the Soviet-bloc is stated to be well in progress but no comparative data are presented. The work in Poland is carried out at the Centralne laboratorium technologii nafty (Central Laboratory of Petroleum Technology) in Cracow and Centralne laboratorium produktów naftowych (Central Laboratory of Petroleum Products) in Warsaw. Future

Card 1/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

The chemistry of lubricant additives P/014/62/041/001/002/004
D204/D304

development of this branch of Polish industry is anticipated. There are 1 table and 6 references: 3 Soviet-bloc and 3 non-Soviet-bloc. The references to the English-language publications read as follows C.W. Georgi, "Motor Oils and Engine Lubrication", New York, 1958; H.H. Zuidema, "The performance of Lubricating Oils", New York 1952.

ASSOCIATION: Centralne laboratorium produktów naftowych, Warszawa (Central Laboratory of Petroleum Products, Warsaw)

Card 2/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

TRYBULA, Eugeniusz

Chemistry of lubricant additives. Przem chem 41 no.1:24-27 Ja '62.

1. Centralne Laboratorium Produktow Naftowych, Warszawa

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

TRYBULA, Eugeniusz

Chemistry of lubricant additives. Przem chem 41 no.1:24-27 Ja '62.

1. Centralne Laboratorium Produktow "aftowych, Warszawa

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

TRYBULA, Eugeniusz, mgr inz.; SAWICKA, Elzbieta, inz.

Properties of cooling compressor oils operating with Freon 12. Nafta Pol 20 no.6:156-159 Je'64.

1. Institute of Petroleum Technology, Warsaw Branch.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

PALUSZKIEWICZ, Bronislawa, mgr; TRYBULA, Eugeniusz, mgr inz.

Properties of lubricating oils for two-stroke engines with spark ignition. Nafta Pol 18 no.11:302-307 N '62.

1. Centralne Laboratorium Produktow Naftowych, Warszawa.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

P/014/63/042/003/002/003
D204/D307

AUTHORS: Szwarska, Helena, Trybuła, Eugeniusz and Lipson, David

TITLE: Resistance of epoxy-polyamide lacquer to petroleum products and the possibilities of its application

PERIODICAL: Przemysł Chemiczny, v. 42, no. 3, 1963, 164-167

TEXT: The present work is part of a general trend aimed at increased utilization of plastics in the petroleum industry, and was concerned with the tests of the petroleum products - and water-resistance of a 2-component epoxy-polyamide lacquer no. 1AB, produced by Instytut Tworzyw Sztucznych w Warszawie (Plastics Institute, Warsaw). The lacquer was applied in a thickness of 0.10 - 0.12 mm on to (1) sandblasted, (2) sandblasted and phosphated (3) chemically derusted, and (4) chemically derusted and phosphated St-27s steel plates, and was tested at 20 and 50-100°C, for 40 days at the low and 140 hours at the higher temperatures. The adhesion to base remained extremely good, the appearance remained unchanged, and the

Card 1/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

gains in weight in the presence of petroleum oil products were very low. Conclusions: epoxy-polyamide and epoxy-melamine lacquers are practically insoluble in petroleum products but may absorb small amounts of hydrocarbons on prolonged heating. They are soluble in hot polar solvents, swell slightly in benzene; adhesion is best on sandblasted and phosphated surfaces, but is nonexistent on greasy metals. The coating was then sprayed in 5 layers onto a sandblasted experimental cistern 230R, was hardened at 35-50°C, and was still intact after 1 year of exploitation. The lacquer is therefore suitable for protecting steel cisterns against water and other substances occurring in mineral water. There are 2 tables.

ASSOCIATION: Centralne Laboratorium Technologii Nafty, Oddziaj w Warszawie (Central Laboratory of Petroleum Technology, Warsaw Department)

SUBMITTED: August 7, 1962

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

P/035/60/000/019/003/004
A076/A026

AUTHORS: Przybyl, Wladyslaw, Director; Trybula, Henryk, Engineer

TITLE: [illegible]

PERIODICAL: Przegląd Mechaniczny, 1960, No. 19, pp. [illegible]

TEXT: The authors describe the production history of the Pleszewska Fabryka Obrabiarek (Pleszew Machine-Tool Plant) and list a number of wood-working machines describing their operating principles. The following types of wood-working machines are produced by this plant: beading tool DFGA; pendulum saws PDe-5; cross-cut saws PSWe; circular saws TPSe; ribbon saws PTMe, PTe-7 and PTe-9; wood-turning lathes Types 1 DT and 3 DT; moulder spindle lathe FJe; drilling machines LBSe; belt sanders Type SLNe; wood-turning machines DFGA and FJNe; chain saws DRSA-63 multi-circular saws with mechanical feed DPLA. The plant produces 1,100 wood-working machines annually and exports to South Africa, Albania, Australia, Austria, Afghanistan, Belgium, Brazil, Bulgaria, Burma, China, Egypt, Hindustan, Indonesia, Iran, Irak, Yugoslavia, Korea, Pakistan, GDR, West Germany, Turkey, Uruguay, Hungary and Vietnam. It is expected that the porduction will be increased by 367% during 1960 - 1965, as compared to the 1958 index. Labor efficiency will

Card 1/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

The Pleszew Machine-Tool Plant

P/035/60/000/019/003/004
A076/A026

increase by about 90% and employment by about 87%. There are 5 photographs.

ASSOCIATION: Pleszewska Fabryka Obrabiared (Pleszew Machine-Tool Plant)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

TRYBULA, S. (Wroclaw)

On the paradox of three random variables. Zastos mat 5 no.4:321-332 '61.

1. Instytut Matematyczny Polskiej Akademii Nauk.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

TRYBULA, S.

Properties of the hypergeometric [illegible] with [illegible]

[illegible] Department of Mathematics of the Technical University, Wroclaw, Submitted October 1, 1964.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

TRYBULA, S.; STEINHAUS, H.

Measurement of successive comparison. p. 204.

ZASTOSOWANIA MATEMATYKI. (Polska Akademia Nauk. Instytut Matematyczny) Warsawa, Poland. Vol. 4, no. 3, 1959

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

TRYBULA, S.

Estimation taking into account the error of the controller. p. 249.

ZASTOSOWANIA MATEMATYKI. (Polska Akademia Nauk. Instytut Matematyczny) Warsawa, Poland. Vol. 4, no. 3, 1959

Monthly list of East European Accessions (EEAI) LC, Vol. 9, no. 2, Feb. 1960

Uncl.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

TRYBUTA, S.

Estimation of frequency in population of elements belonging to classes not represented in the sample. p. 244.

ZASTOSOWANIA MATEMATYKI. (Polska Akademia Nauk. Instytut Matematyczny) Warsawa, Poland. Vol. 4, no. 3, 1959

Monthly list of East European Accessions (EEAI) LC, Vol. 9, no. 2, Feb. 1960

Uncl.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

Krybula, S. On a problem of prognosis. Bull. Acad. Polon. Sci. Cl. III. 5 (1957), 859–862, LXXIV. (Russian summary)

The minimax squared error predictor of one binomial variable from another, given as an example by Hodges and Lehmann [Ann. Math. Statist. 21 (1950), 182–197; MR 12, 36], is extended to the multinomial case.

J. L. Hodges, Jr. (Berkeley, Calif.).

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

TRYBULEC, S.

Social welfare at Kedzierzyn. p.51
(OCHRONA PRACY; BEZPIECZENSTWO I HIGIENA PRACY, Vol. 10, No. 1, Jan. 1956, Warsaw, Poland)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 9, Sept. 1957, Uncl.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

TRYBULSKI, J

The State Railroad Car Factory. p.4

PRZEGLAD TECHNICZNY. (Naczelna Organizacja Techniczna) Warszawa, Poland
Vol.80, no.17, Apr. 1959

Monthly List of East European Accessions Index, (EEAI) LC, Vol.8, no.6, June 1959
Uncl.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

TRYBULA, S. (Wroclaw)

On some loss functions. Col math 7 no.2:297-305 '60. (EEAI 10:1)
(Game theory) (Statistical dicision)
(Distribution (Probability theory))

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

CWIENK, Jerzy, inz.; SEFERNA, Jerzy, inz.; ZEMBALA, Andrzej, inz.; TRYBUS, Albin, inz.

Blocking by means of an auxiliary alternating current with the help of a RTe-2/100-(0-3) type relay and an auxiliary accumulator relay. Energetyka przem 10 no.3:102-104 '62.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

TRYBUS, T.

Rational utilization of locomotive crews. Przegl kolej mechan 13 no.6:164-166 Je '61.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

FIJALKOWSKI, Jozef; TRYBUS, Tomasz

Train timetable for 1964/65 and the tasks of the traction services.
Przegl kolej mechan 11 [i.e.16] no.5:139-140,148-149 My '64.

1. Central Traction Administration, Warsaw.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

TRYEYVAS, A. B.

42423. Universal'nyy Dinamograf udt dlya opredeleniya Fizikomekhanicheskikh svoystv rasteniy. Zapiski Tad Zh. S. Kh in-Ta, T. 1, 1948, S. 253-61.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

TRYEYVAS, A. B.

42422. Vibratslonnyy klassnfikator dlya opredeleniya. Sposobnosti, Samoosypanniya rassteniy. Zapiski Tad Zh. S-Kh. In-Ta T. 1, 1948, S. 263-65.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

TRYFONOV, D.

Unusual career. Sunny stranger. Nauka i zhyttia 12 no.5:16 My '62. (MIRA 15:7)
(Lithium) (Helium)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

TRYFONOW, Michail N., inz.

Development of the electrical engineering industry in Bulgaria.
Wiad elektrotechn 33 no.9:275-278 S'64

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

TRYJARSKA, M. (Warszawa)

Limit problem with tangential derivatives for the parabolic equation in a nonbounded region. In French. Annales pol math 9 no.3:219-233 '61. (EEAI 10:8)
(Differential equations) (Functions)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

TRYJARSKA, M. (Warszawa)

On certain Fourier problems. Rocz prace matem 6:69-84 '61.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

43045

P/515/61/006/000/002/003
I061/I261

AUTHOR: M. Tryjarska (Warsaw)

TITLE: Certain Fourier problems

SOURCE: Polskie Towarzystwo Matematyczne. Roczniki. Seria I. Prace matematyczne. v.6, 1961, 69-84

TEXT: Two separate problems are considered: I. a Fourier problem in a radiant homogeneous medium and II. a Fourier problem in a radiant inhomogeneous medium. In I, the problem consists in determining the function $T(A,t), \in \Omega + S$, Ω being 3-dimensional Euclidian space limited by the Liapunov surface S, satisfying the equation:

$$\Delta T(A,t) - \frac{\partial T(A,t)}{\partial t} = f[A,t,T(A,t)] + \iiint_{\Omega} \frac{F[A,B,t,T(B,t)]}{r^2_{AB}} dB \quad (1)$$

and the following conditions: $\lim_{A \to P \in S} T(A,t) = 0$ and $\lim_{t \to 0} T(A,t) = 0$,

Card 1/3

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

On certain Fourier problems

where $P \in S$, where functions $f(A,t,u)$ and $F(A,B,t,u)$ are assumed to be continuous and satisfy the Holder's conditions. r_{AB} is the distance A,B in the domain Ω. The function $T(A,t)$ is found as a sum of two thermal potentials, and the Schauder theorem a fixed point existence in Busch's space is used to prove that $T(A,t)$ is the unique solution of the problem. In II, problem consists in determining the function $T(A,t)$ with the same assumptions, satisfying the equation:

$$\alpha(A,t)\Delta T(A,t)+\sum_{j=1}^{3}\beta_j(A,t)\frac{\partial T(A,t)}{\partial x_j}+\gamma(A,t)T(A,t)-\frac{\partial T(A,t)}{\partial t}=$$

$$=f[A,t,T(A,t)]+\iiint_{\Omega}\frac{F[A,B,t,T(B,t)]}{r^{4}_{AB}}\,dB, \qquad (32)$$

where α and β_j satisfy Holder conditions, the functions f,F satisfy the following conditions:

$$|f(A,t,u)-f(A_1,t,u_1)|\leq \text{const}\left[r^{h_0}_{AA_1}+|u-u_1|\right]$$

Card 2/3

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

P/515/61/006/000/002/003
I061/I261

On certain Fourier problems

$$F(A,B,t,u) - F(A_1,B,t,u_1) \leq \text{const} \left[r_{AA_1}^{h_f} + |u-u_1| \right]$$

$$hf,\ hF \in (0,1).$$

The Green's function of the problem is introduced, and then the successive approximations method is used to prove the existence and uniqueness of the solution.

Card 3/3

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

CZYZ, Z.; TRYJARSKI, J.

Measuring stand for investivation of Mod. SP 303 small microwave antennas. Przem inst telekom prace 12 no.38:45-47 '62.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

AVAKYAN, V.V.; TRYKHANKIN, I.D.

Continuous straightening of an abrasive wheel on a ball-grinding machine. Biul.tekh.-ekon.inform.Gos.nauch.-issl.inst.nauch.i tekh. inform. 18 no.5:29-30 My '65. (MIRA 18:6)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

TRYKHMANOVA V.M.

USSR/ Engineering - Refractory coatings

Card 1/1 Pub. 128 - 16/23

Authors : Katok, I. V., and Trykhmanova, V. M.

Title : Glass (refractory) coatings as a protection against nitration

Periodical : Vest. mash 2, 70 - 73, Feb 1955

Abstract : The refractory coating is described of the inner surfaces of Diesel engine cylinders at the Chelyabinsk Tractor Plant, as an effective method against nitration. The chemical composition of the refractory solution is given as follows: 67.5 - 73.5% SiO_2; 31.5 - 25.5% Na_2O; and not more than 0.6% $Fe_2O_3 + Al_2O_3$; 0.4% CaO and 0.14% S. A description of plating methods is given, together with types of baths used. Illustrations; table; drawings.

Institution: .....

Submitted: .....

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

ACCESSION NR: AP4036533 S/0089/64/016/005/0453/0455

AUTHOR: Kukhtevich, V. I.; Matusevich, Ye. S.; Try*kov, L. A.

TITLE: Space distribution of a dose of scattered radiation from a source of unidirectional gamma quanta in an infinite medium in the vicinity of the source

SOURCE: Atomnaya energiya, v. 16, no. 5, 1964, 453-455

TOPIC TAGS: gamma quanta scattering, scattering space distribution, air gamma ray scattering, compton scattering, radiation space distribution, gamma ray

ABSTRACT: The scattering in air of gamma rays, whose energy was between 0.5 and 10 Mev, was measured. The effective collimation angles were 4.8 and 15.6°. The radioactive isotopes used were: A^{198} (0.412), Cs^{137} (0.661), Co^{60} (av. energy 1.25) and Na^{24} (av. en. 1.86 Mev). The ratio D_{se}/D_{nse} was measured, where D_{se} is the power scattered, D_{nse} - that not scattered. The results are compared with the theoretical formula for single scattering. The deviations between the experimental and calculated values increase with the increase of scattering angle. "The authors are grateful to I. I. Bondarenko, S. G. Tsy*pin, and Ya. A. Kazanskiy for useful advise." Orig. art. has: 5 figures.

Card 1/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

L 06993-67 EWT(m)/EWP(t)/ETI IJP(c) JD/WW/JG/JR
ACC NR: AP6021522 SOURCE CODE: UR/0089/66/020/006/0469/0473

AUTHOR: Goryachev, I. V.; Dulin, V. A.; Yermakov, S. M.; Kolyshenkova, V. V.; Suvorov, A. P.; Trykov, L. A.

ORG: none

TITLE: Angular distribution of fast neutrons behind iron shields

SOURCE: Atomnaya energiya, v. 20, no. 6, 1966, 469-473

TOPIC TAGS: neutron distribution, fast neutron, angular distribution, reactor shielding, iron

ABSTRACT: The authors have measured the angular and energy distributions of fast neutrons behind iron shields of 10 and 15 cm thickness. The results of the experiment are compared with calculations by the Monte Carlo method and with many-group calculations by the "transmission" matrix method in the $2P_7$ approximation. The results of the calculations show that the transmission of the shield depends strongly on the angular distribution of the incident radiation. The transmission measurements were made using an RIZ uranium-water reactor with a stainless steel reflector. The agreement of the experimental and the calculated data are found to

Card 1/2 UDC: 539.125.52

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

L 06993-67
ACC NR: AP6021522

be satisfactory both in absolute magnitude and in the form of the angular distributions. A study was also made of the difference in character of the spatial and angular distributions of fast neutrons from a point source in an infinite homogeneous medium and from a point source located at a plane barrier. The results show that the allowance for the thickness of the shield leads to a steeper fall off in the neutron flux than in the case of an infinite medium. Other differences between infinite and finite shields are also pointed out. The authors thank Yu. A. Kazanskiy for valuable advice and discussions. Orig. art. has: 5 figures and 1 formula.

SUB CODE: 18 SUBM DATE: 04Sep65/ ORIG REF: 013/ OTH REF: 004

Card 2/2 LC

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

ACCESSION NR: AT4019051 S/0000/63/000/000/0210/0214

AUTHOR: Kukhtevich, V. I.; Try*kov, L. A.

TITLE: Oblique incidence of Gamma rays

SOURCE: Voprosy* fiziki zashchity* reaktorov; sbornik statey (Problems in physics of reactor shielding; collection of articles). Moscow, Gosatomizdat, 1963, 210-214

TOPIC TAGS: nuclear reactor, reactor shielding, Gamma ray, lead shield, lucite shield, incidence angle

ABSTRACT: The passage of γ rays through a barrier was studied as a function of the angle of incidence, varying the angle between the barrier surface and the γ-ray beam between 0 and 80°. The barrier material was either lead (r = 0.7, 0.8, 1.4, and 2.75 cm), lucite (r = 3, 8, 11 and 14 cm) or a combination of lead (r = 0.8 cm) and lucite (r = 8 cm.), where r is the barrier thickness. The source of γ rays was Co^{60} (1 curie), and the detection system consisted of a stilbene crystal (r = 30 and h = 15 mm), an FEU-12B photomultiplier, a cathode repeater, an amplifier (Siren type) and an impulse integrator. The results are plotted. Fig. 1 of the Enclosure shows the dosage behind a combined barrier of lead and lucite as a function of the angle of incidence. The total error in the measurements was

Card 1/3

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

ACCESSION NR: AT4019051

estimated to be of the order of 5 -10%. These experimental results were then compared with the theoretical calculations of Berger and Doggett (J. Res. Nat. Bur. Standards 56, 89, (1956)) for perpendicular beams and with the calculations of G. H. Peebles (Report R-240, the Rand Corp., Santa Monica, California (1952)) for other angles of incidence. The experimental data were in good agreement with the theoretical. Orig. art. has: 5 figures.

ASSOCIATION: none

SUBMITTED: 14Aug63

DATE ACQ: 27Feb64

ENCL: 01

SUB CODE: NP

NO REF SOV: 000

OTHER: 005

Card 2/3

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

ACCESSION NR: AT4019051

ENCLOSURE: 01

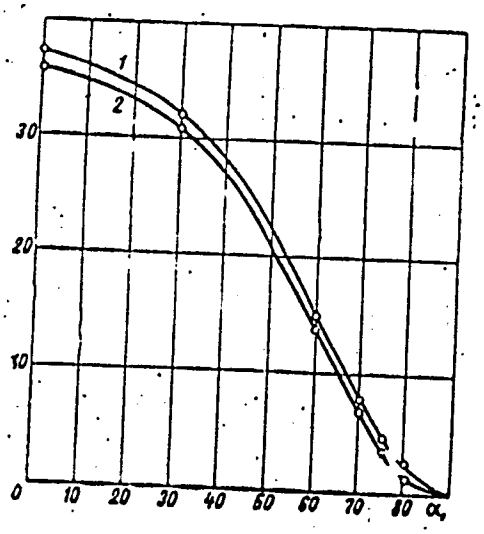


Fig. 1. Dose behind a barrier as a function of the angle of incidence.

1 – lucite behind lead; 2 – lead behind lucite

Ordinate = dose of γ rays in relative units; abscissa = angle of incidence in degrees.

Card 3/3

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

L [illegible] EWT(m) Peb DIAAP DM

ACCESSION NR: AP5009116 S/0089/65/018/003/0252/0253 12 B

AUTHOR: Kolevatov, Yu. I.; Khukhtevich, V.I.; Matusevich, Yo.S.; Trykov, O.A.

TITLE: Angular and energy distribution of scattered Gamma radiation near an isotropic source in an infinite aerial medium

SOURCE: Atomnaya energiya, v. 18, no. 3, 1965, 252-253

TOPIC TAGS: Gamma scattering, angular distribution, energy distribution, Gamma moderation

ABSTRACT: This is a companion to a preceding paper in the same source (Accession AP5009115), dealing with a unidirectional source. The angular and energy distributions of scattered gamma quanta from a point-like isotropic source of Co^{60} in an infinite air medium was investigated experimentally at two distances from the source (15 and 30 m) for different angles between the source-detector direction and the symmetry axis of a unidirectional detector (12--180°). The energy spectrum of the gamma-quanta were measured with single-crystal scintilation spectrometer using NaI(Tl) crystal in a lead collimator-

Card 1/3

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

L 45583-65

ACCESSION NR: AP5009116

container with collimation angle 10 ± 0.2°. The matrix method was used to process the apparatus distributions of the pulses. The results are shown in Fig. 1 of the Enclosure. The average accuracy is ±10 - 15%, but the error can reach 100% in places where the background becomes larger than the effect. The angular distribution of the dose intensity of the scattered gamma-radiation to the total dose power depends linearly on the angle, reaching a maximum value of ~ 50% at 180°. Comparison of the angular and energy distributions determined in this and in the companion paper shows that a geometry comprising an isotropic source and a unidirectional detector can be regarded as the inverse of a geometry using a unidirectional source and isotropic detector. Orig. art. has: 2 figures.

ASSOCIATION: None

SUBMITTED: 03Aug64 ENCL: 01 SUB CODE: NP

NR REF SOV: 002 OTHER: 000

Card 2/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

TRYLINSKI, Wladyslaw, doc. dr inz.

Effective contact ratio of fine-pitch involute gears. Pomiary 10 no.2:63-66 F'64.

1. Katedra Konstrukcji Przyrzadow Precyzyjnychm Politechnika, Warszawa.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

P/034/60/000/009/002/004
A222/A026

18.1260

AUTHOR: Tryliński, Władysław, Doctor of Engineering, Docent

TITLE: Bimetal Strips

PERIODICAL: Pomiary-Automatyka-Kontrola, no. 9, 1960, 355 - 360

TEXT: A general theoretical description is presented of the deflections and stresses in bimetal strips and a few standard bimetal alloys are listed. The general formula deduced for bimetal deflection due to temperature is

$$f = k_t \Delta t \frac{L^2}{2}$$

where k_t is the bimetal sensitivity, Δt - temperature difference and L - length of the strip. Calculation for various bimetal strip shapes is performed accordingly. The stress analysis is concerned with various mechanical designs of bimetal strips. The standard material used for the passive layer of bimetal strips are ferronickel alloys, especially invar, for temperatures up to 200°C, Ni -42%, Fe - 58% alloy for temperatures between 350 - 400°C, and the Ni - 46%, Fe - 54% alloy for temperatures of 400 - 450°C. The active layer mostly is made of high-

Card 1/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

KUKHTEVICH, V.I.; MATUSEVICH, Ye.S.; TRYKOV, L.A.

Spatial distribution of a scattered radiation dose from a source of collimated gamma quanta in an infinite medium near the source. Atom.energ. 16 no. 5:453-455 My '64.
(MIRA 17:5)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

ACC NR: AP6034091 (N) SOURCE CODE: UR/0089/66/021/004/0246/0254

AUTHOR: Trykov, L. A.; Goryachev, I. V.; Kukhtevich, V. I.

ORG: none

TITLE: Measurement of the dose albedo of fast neutrons when different shields are used

SOURCE: Atomnaya energiya, v. 21, no. 4, 1966, 246-254

TOPIC TAGS: neutron albedo, fast neutron, neutron shielding, neutron energy distribution, neutron spectrum, radiation dosimetry

ABSTRACT: The authors investigated the energy distribution of fast neutrons reflected from iron, ground, water, and polyethylene under normal and oblique incidence of a broad unidirectional beam of neutrons on the surface of the reflector. They also investigated the dependence of the albedo of the neutrons on the thickness of a flat reflector layer made of iron. The measurements were made with an isotropic detector placed on the surface of the shield. The neutrons were obtained from a zero-power research reactor. The detector was a single-crystal scintillation neutron spectrometer similar to that described by Yu. A. Kazanskiy et al. (Atomnaya energiya v. 20, 143, 1966). The mean square measurement error was not larger than 50% for water and polyethylene and 10% for iron and ground. Two methods were used to measure the albedo, one by recording the number of reflected neutrons against the background of the direct radiation (difference method), and by suppressing the unscattered neutrons with a

Card 1/2 UDC: 621.039.58: 539.125.52

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

ACC NR: AP6034091

shielding cone. The methods yielded results that agreed within 10%. Plots of the reflected-neutron spectra are presented and empirical formulas for them are given. The results show that the dose albedo of the neutrons depends on the thickness of the iron layer employed. The angular dependence of the dose albedo of neutrons reflected from iron and from ground show a similar behavior, decreasing with increasing angle of incidence. In the case of water, however, the dose albedo shows a slight increase with angle (up to 70°). This is attributed to the predominant forward scattering of neutrons by hydrogen atoms. The results are found to agree with those obtained by others. Orig. art. has: 7 figures and 2 formulas.

SUB CODE: 18, 20/ SUBM DATE: 05Apr66/ ORIG REF: 003/ OTH REF: 004

Card 2/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

L 22419-66 EWT(m)/EWA(h)

ACC NR: AP6007950 SOURCE CODE: UR/0089/66/020/002/0143/0143

AUTHORS: Kazanskiy, Yu. A.; Trykov, L. A.; Dulin, V. A.; Zolotukhin, V. G.; Tarasko, M. Z.

ORG: none

TITLE: Transformation of integral amplitude distributions into neutron energy spectra

SOURCE: Atomnaya energiya, v. 20, no. 2, 1966, 143

TOPIC TAGS: neutron spectrum, neutron detector, scintillation detector, pulse height analyzer, nuclear reactor shield, iron, beryllium

ABSTRACT: This is an abstract of article No. 52/3404 submitted to the source editor but not published in full. The authors improve the accuracy with which the neutron energy spectrum is obtained by differentiating the integral spectra of pulses from a scintillator. This is done by using a least-squares method of determining the derivative,

Card 1/2 UDC: 539:16.08:539.125.5

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

L 22419-66
ACC NR: AP6007950

decreasing the fluctuations that result from differentiation of experimental amplitude distributions. The algorithm for finding the derivative of the empirical curve is simple, since it is based on approximating a section of the empirical curve by a second-order parabola. If the pulse-height distributions vary over the differentiation section by not more than a factor 2 -- 3, the obtained derivative will differ from the analytic value by not more than 1 -- 3%. The results are illustrated with spectra of reactor neutrons that have passed through different thicknesses of iron under good-geometry conditions. The unpublished article contains detailed characteristics of the spectrometer employed, its block diagram, the gamma-ray discrimination system, and also results of measurements of spectra of standard source and spectra of reactor neutrons passing through different thicknesses of beryllium. Orig. art. has: 1 figure.

SUB CODE: 18 SUBM DATE: 03Aug65/ ORIG REF: 002/ OTH REF: 001

Card 2/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

80291

S/170/60/003/04/23/027
B007/B102

21.5200

AUTHORS: Kukhtevich, V. I., Matusevich, Ye. S., Shemetenko, B. P., Trykov, L. A.

19

TITLE: Dose Characteristics of Ionization Chambers and of Large Scintillation Crystals 19

PERIODICAL: Inzhenerno-fizicheskiy zhurnal, 1960, Vol. 3, No. 4, pp. 125-126

TEXT: The present paper describes the measurement of the I/D ratios in the range of from 0.08-2.0 Mev for ionization chambers the dimensions of which are comparable with the path of secondary electrons (produced by γ-rays) in air, for organic scintillation crystals (which absorb primary γ-radiation considerably), and for a terphenyl crystal. I/D stands for the ratio between detector indication and the dose produced in the place of the detector by γ-radiation of different intensity. The method employed is briefly described, the results of measurement are diagrammatically shown in Fig. 1. This diagram shows that the "large" air chambers with air-equivalent walls are dosimetric with sufficient accuracy in the energy range investigated. The I/D curves of small and large crystals agree well with each other with respect to their shape. There are 1 figure and 2 references,

Card ~~1/2~~

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

PROCESSES AND PROPERTIES INDEX

M

11

*Determination of Small Amounts of Aluminium (in Copper Alloys) by the 8-Hydroxyquinoline Method. M. D. Trykov and E. M. Ivanova (*Zavod. Lab.*, 1941, **10**, 534–536; *Chem. Zentr.*, 1942, **113**, (II), 2931; *C. Abs.*, 1944, **38**, 2284).—[In Russian.] The following procedure, based on experimental work, was devised for determining very small quantities of Al in Cu-base alloys where considerably more Fe than Al is present. Dissolve 2 grm. of sample in 40 c.c. of 7·5*N*-HNO_3. After expelling nitrous fumes, add 50 c.c. of hot water + 20 c.c. of 20% NH_4NO_3 and gently boil for 10 minutes. Filter off the hydrated SnO_2, wash with hot water, and deposit the Cu electrolytically in the usual way. After all the Cu is deposited, neutralize to methyl red by careful addition of NH_4OH with 2–3 drops in excess. Heat to coagulate the $Fe(OH)_3$ + $Al(OH)_3$ precipitate, filter, and wash with hot water. Dissolve the precipitate in 20 c.c. of hot *N*-HCl and to the solution add 5 c.c. of $CuSO_4$ solution (2 grm. Cu per litre), 10 c.c. of 0·5% NH_4 tartrate solution which is saturated with H_2S, and 10 c.c. of NH_4OH. Heat to coagulate the sulphides of Cu and Fe, filter, and wash. Make the filtrate acid to methyl red by adding 2*N*-HCl, boil off H_2S, and evaporate to 20–25 c.c. Then add 3 c.c. of 1·5% 8-hydroxyquinoline-HCl and neutralize with NH_4OH with 2–3 drops in excess. Heat on the hot plate at +80° C., filter, wash and dissolve the Al precipitate in 10–15 c.c. of hot 2*N*-HCl. In this solution determine the hydroxyquinoline content by the titrimetric procedure.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

1ST AND 2ND ORDERS

3RD AND 4TH ORDERS

PROCESSES AND PROPERTIES INDEX

M

11

A Volumetric Phosphate Method for the Determination of Zinc. M. D. Trykov, V. A. Lapshina, and V. K. Mokryakova (*Zavod. Lab.*, 1941, **10**, 577-580; *C. Abs.*, 1945, **39**, 5202). [In Russian.] Zn is precipitated from neutral solution as $ZnNH_4PO_4$, the precipitate is filtered, washed with cold water, dissolved in excess 0·1*N*-HNO_3, and the excess HNO_3 is titrated with 0·1*N*-NaOH in the presence of methyl orange. Cu, Bi, Pb, Cd, Fe, Al, Mn, Mg, and Ca interfere. Small quantities of Ni and alkali metals are not precipitated as phosphates. Zn is separated from Cu, Bi, Pb, and Cd with H_2S in an acid solution. For a more accurate determination of Zn, the precipitate of sulphides is dissolved in HNO_3, H_2SO_4 is added, and the solution is evaporated until SO_3 fumes appear; the solution is then diluted, H_2S is passed in, and the filtrate obtained is combined with the first filtrate. Cu and Pb are separated from Zn by electrolysis in HNO_3 solution, Zn remaining in the electrolyte. Fe, Al, and Mn can be separated from Zn by means of NH_3 in the presence of $(NH_4)_2S_2O_8$. Mg and Cr can be separated from Zn as follows: after separation of the Fe, Al, and Mn, add to the ammoniacal filtrate sufficient 6*N*-HCl to give an acid reaction, add 5 c.c. in excess, heat to boiling, boil for 10 min. to decompose excess $(NH_4)_2S_2O_8$, neutralize with NH_3, add 10-25 c.c. of 5% $Na_2S \cdot 9H_2O$, and coagulate the ZnS precipitate on a hot plate. Wash the ZnS with hot 2% $(NH_4)_2SO_4$, dissolve the washed precipitate in hot 3·5 *N*-H_2SO_4, filter, neutralize with NH_3, and precipitate Zn with $(NH_4)_2PO_4$.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

DETERMINAT ON O ODIUM IN CALCIUM-SODIUM BABBITTS. VOI. KOLOSOV AND M. D. TRYKOV. (ZAVOD. LAB., 1940, 9, (5/6), 518-519) (In Russian) 2-4g of Babbit turnings in a porcelain boat are heated for 10-15 min. at 400°-450°C. in a Mars furnace in acurrent of air. The oxidized product is then lixiviated with boiling water and a stream of CO_2. The residur of $CaCO_3$ and PbO is filtered off, and Na is determined in the filtrate by titration with HCl.

N.A.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

1ST AND 2ND ORDERS

3RD AND 4TH ORDERS

PROCESSES AND PROPERTIES INDEX

Cu

7

Determination of small amounts of nickel in duralumin
M. D. Trykov and V. A. Lapshina. *Zavodskaya Lab.* 10, 283-6(1941).—Treat 5 g. of duralumin with 50 ml. of 15% KOH soln. When the violet reaction subsides, add 50-70 ml. more of the KOH soln. When no more H_2 is evolved, boil 2 min., filter and wash the residue, which contains Ni, Cu, etc. with hot water. Dissolve the residue in 20 ml. of hot, 6N HCl and 5 ml. of H_2O_2. Filter and wash this residue which should contain no Ni. Boil to expel Cl_2 and ppt. the Ni with dimethylglyoxime in a nearly neutral soln. to which tartaric acid has been added as in the analysis of steel. B. Z. Kamich

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

CA

Determination of small quantities of Al by the 8-hydroxyquinoline method. M. D. Frykin and R. M. Ivanova. *Zavodskaya Lab.* 10, 534-6(1941). *Chem. Zentr.* 1942, II, 2931-2.—The following procedure, based on exptl. work, was devised for detg. very small quantities of Al in Cu-base alloys where considerably more Fe is present. Dissolve 2 g. of sample in 40 ml. of 7.5 *N* HNO_3. After expelling nitrous fumes, add 50 ml. of hot water + 20 ml. of 20% NH_4NO_3 and gently boil for 10 min. Filter off the hydrated SnO_2, wash with hot water and deposit the Cu electrolytically in the usual way. After all Cu is deposited, neutralize to methyl red by careful addn. of NH_4OH with 2-3 drops in excess. Heat to coagulate the $Fe(OH)_3$ + $Al(OH)_3$ ppt., filter and wash with hot water. Dissolve the ppt. in 20 ml. of hot 2 *N* HCl and to the soln. add 5 ml. of $CuSO_4$ soln. (2 g. Cu per l.), 10 ml. of 0.5% NH_4 tartrate soln. which is satd. with H_2S and 10 ml. of NH_4OH. Heat to coagulate the sulfides of Cu and Fe, filter and wash. Make the filtrate acid to methyl red by adding 2 *N* HCl, boil off H_2S and evap. to 20-25 ml. Then add 3 ml. of 1.5% 8-hydroxyquinoline-HCl and neutralize with NH_4OH with 2-3 drops in excess. Heat on the hot plate at not over 80°, filter, wash and dissolve the Al ppt. in 10-15 ml. of hot, 2 *N* HCl. In this soln. det. the hydroxyquinoline content by the titrimetric procedure.

W. T. Hall

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

PROCESSES AND PROPERTIES INDEX

A volumetric phosphate method for the determination of zinc. M. D. Trykov, V. A. Lapshina, and V. K. Mokryakova. *Zavodskaya Lab.* **10**, 577-80(1941). Zn is pptd. from neutral soln. as $ZnNH_4PO_4$, the ppt. is filtered, washed with cold water, dissolved in excess 0.1 *N* HNO_3, and the excess HNO_3 is titrated with 0.1 *N* NaOH in the presence of methyl orange. Cu, Bi, Pb, Cd, Fe, Al, Mn, Mg, and Ca interfere. Small quantities of Ni and alkali metals are not pptd. as phosphates. Zn is sepd. from Cu, Bi, Pb, and Cd with H_2S in an acidic soln. For a more accurate detn. of Zn, the ppt. of sulfides is dissolved in HNO_3, H_2SO_4 is added, the soln. evapd. until SO_3 vapors appear, the soln. is dild., H_2S passed in, and the filtrate obtained is combined with the 1st filtrate. Cu and Pb are sepd. from Zn by electrolysis in HNO_3 soln., and Zn remains in the electrolyte. Fe, Al, and Mn can be sepd. from Zn by means of NH_3 in the presence of $(NH_4)_2S_2O_8$. Mg and Cr can be sepd. from Zn as follows: after the sepn. of the Fe, Al, and Mn, add to the ammoniacal filtrate sufficient 6 *N* HCl to give an acid reaction, add an excess of 5 ml., heat to boiling, boil for 10 min. to decomp. excess $(NH_4)_2S_2O_8$, neutralize with NH_3, add 10-25 ml. of 5% $Na_2S.9H_2O$, and coagulate the ZnS ppt. on a hot plate. Wash the ZnS with hot 2% $(NH_4)_2SO_4$, dissolve the washed ppt. in hot 3.5 *N* H_2SO_4, filter, neutralize with NH_3, and ppt. Zn with $(NH_4)_2HPO_4$. In a complete analysis of slags when Mg and Ca are also detd., det. Zn as follows: ppt. Ca from the NH_3 filtrate after the sepn. of Fe, Al, and Mn with $(NH_4)_2C_2O_4$, filter off the CaC_2O_4, and ppt. Mg in the ammoniacal filtrate with $(NH_4)_2HPO_4$; sep. $MgNH_4PO_4$, neutralize the filtrate with HCl to a neutral reaction, obtaining Zn in the form of $ZnNH_4PO_4$. Impurities of Fe, Al, and Mn caused low results, owing to the adsorption of Zn by the ppt. of the hydroxides. Max. deviations were 0.10% with 6.25% of Zn and 0.05% with 3.12% of Zn. Three references. W. R. Henn

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

7

Determination of sodium in calcium sodium babbitts

V. I. Kolosov and M. D. Tryhov. *Zavodskaya Lab.* 9, 518-19(1940). Place 2-4 g. of babbitt (Ca 0.75-1.1 and Na 0.7-1.0%) shavings in a porcelain boat and oxidize in an O stream for 10-15 min. at 400-450° in a furnace. Treat with 150 ml. of boiling water for 20-30 min., pass in a stream of CO_2 for 5-10 min., boil for 5-10 min., filter and wash 3-4 times with water. Cool the filtrate to room temp., add methyl orange and titrate with 0.1 N HCl. The method is as rapid and accurate as the amalgamation method.

H. Z. Kamich

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

DETERMINATION OF SODIUM IN CALCIUM-SODIUM BABBITTS. VOL. KOLOSOV AND M. D. TRYKOV (ZAVOD. LAB., 1940, 9, (5/6), 518-519) (in Russian) 2-4g of babbit turnings in a porcelain boat are heated for 10-15 min. at 400°-450°C. in a Mars furnace in acurrent of air. The oxidized product is then lixiviated with boiling water and a stream of CO_2. The residur of $CaCO_3$ and PbO is filtered off, and Na is determined in the filtrate by titration with HCl.

N.A.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

L 05382-67 EWT(m) JR/GD

ACC NR: AT6027941 SOURCE CODE: UR/0000/66/000/000/0216/0225

47
44
B+1

AUTHOR: Kolevatov, Yu. I.; Kukhtevich, V. I.; Trykov, O. A.

ORG: None

19

TITLE: Energy distribution and dose rate of gamma quanta scattered at the air-earth interface

SOURCE: Voprosy fiziki zashchity reaktorov (Problems in physics of reactor shielding); sbornik statey, no. 2. Moscow, Atomizdat, 1966, 216-225

19

TOPIC TAGS: gamma radiation, angular distribution, radiation source

ABSTRACT: The authors study the angular energy distribution of scattered γ-radiation from an isotropic point source (Co^{60}) at source-to-detector distances of 50 and 30 m and heights above ground level of 2-53 m. A method is proposed for determining the scattering field of γ-radiation close to the boundary between two media based on an analysis of the results of this work and a comparison with the data in the literature. The geometry of the experiment is shown in the figure. About 70 energy distributions were measured in all covering a range of 12-180° for θ and 0-140° for φ. The results show that the parameters h, R, θ and φ have a characteristic effect on the form of the angular energy distributions. Sharp maxima are observed in the energy region above

Card 1/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

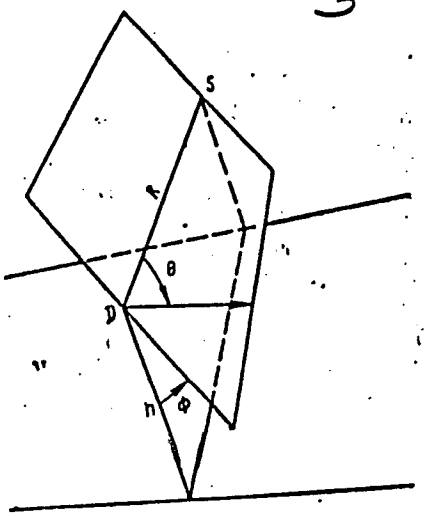
L 05382-67

ACC NR: AT6027941

3

0.22 Mev due to single scattering of γ-quanta from the surface of the earth at an angle ψ given by the expression

$$\operatorname{tg}\psi = \frac{2\sin^2\theta}{\sin 2\theta - \frac{2h}{R\cos\psi}}$$



In the limiting case at an infinite distance from the surface of the earth the angular energy distributions have a maximum in the region of approximately 0.22 Mev due to single scattering of γ-quanta through an angle π. The spatial energy distributions of scattered γ-quanta from an isotropic point source also show a maximum in the region of approximately 0.22 Mev which disappears with a reduction in the ratio h/R. A comparison of the theoretical and experimental data for the spatial distribution of the dose rate of scattered γ-radiation from an isotropic source close to the earth-air interface as a function of h and R shows agreement with an average accuracy of ±20%. The authors thank Yu. V. Fadeyev, A. I. Novikov and N. I. Soldatov for assistance with the work. Orig. art. has: 7 figures, 2 tables, 7 formulas.

SUB CODE: 18/ SUBM DATE: 12Jan66/ ORIG REF: 008/ OTH REF: 004

Card 2/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

[illegible]

[illegible]

[illegible] Trykov, O.A.

[illegible] Gamma radiation

[illegible] Gamma [illegible] angular distribution, energy distribution, gamma moderation

ABSTRACT: This is a companion to a preceding paper in the same source. Accession [illegible] a unidirectional source. [illegible] gamma quanta from a [illegible] infinite air medium was [illegible] and [illegible] for different angles [illegible] direction and the symmetry axis of a unidirectional [illegible] The energy [illegible]

Card 1/7

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

ACCESSION NR: AP5009116

[illegible] in Fig. 2 of the enclosure. The average accuracy is 110 - 15%, but the error can reach 100% in places where the back-

determined in this and in the companion paper shows that a geometry

ASSOCIATION: None

SUBMITTED: 03Aug64 ENCL: 01 SUB CODE: EP

NO REF SOV: [illegible] OTHER: [illegible]

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

ZOTIKOV, V.Ye., prof., doktor tekhn.nauk; BUDNIKOV, I.V.; TRYKOV, P.P.; GINZBURG, L.N., retsenzent; KARPOV, L.I., retsenzent; ~~ORLOVA,~~ Z.M., retsenzent; TALEPOROVSKAYA, V.V., retsenzent; FINKEL'SHTEYN, I.I., retsenzent; KOPELEVICH, Ye.I., red.; SHAPENKOVA, T.A., tekhn.red.

[Fundamentals of the spinning of fabrics] Osnovy priadeniia volokn istykh materialov. Pod red. V.E.Zotikova. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po legkoi promyshl., 1959. 506 p. (MIRA 12:11)

1. Kafedra pryadeniya khlopka Ivanovskogo tekhnologicheskogo instituta (IvTI) (for Karpov, Orlova, Taleporovskaya, Finkel'shteyn).
(Spinning)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

TRYKOV, P.P., doktor tekhn.nauk, prof.

The number of engineers being trained for the manufacture of linen is growing. Tekst.prom.17 no.11:63-65 N '57. (MIRA 10:12)
(Textile industry--Study and teaching)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

27195 TAYLOV, P. P. - Snizhenie Obryrnostivazhneyshaya Zadacha. Tekstil. Prom-St: 1949, No. 8, s. 10-13.

SO: Letopis' Zhurnal'nykh Statey, Vol. 36, 1949.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

TRYKOV, P.P.

2719.

Snizheniye Obryvnosti-Vazhneyshaya Zadacha. Tekstil. Prom-st', 1949, 8, S. 10-13

SO: LETOPIS NO 34

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

TRYKOV, V.I.

3(2), 3(4) SOV/6-59-7-4/25

AUTHOR: Sokolova, O. I.

TITLE: Results of the Competition for the Best Improving Suggestion (Itogi konkursa na luchsheye ratsionalizatorskoye predlozheniye)

PERIODICAL: Geodeziya i kartografiya, 1959, Nr 7, pp 17-21 (USSR)

ABSTRACT: In May 1959, the ordinary competition for the best improving suggestion in the field of topographic-geodetic and cartographic production was concluded at the Glavnoye upravleniye geodezii i kartografii MVD SSSR (Main Administration of Geodesy and Cartography of the Ministry of Internal Affairs of the USSR). 7 aerogeodetic services, 8 cartographic institutes and NRKCh took part. A total of 30 topographic-geodetic, and 31 cartographic, suggestions were submitted. The 1st prize of 1,000 rubles was awarded to V. A. Morozov and V. V. Urusov (Minskaya kartograficheskaya fabrika (Minsk Cartographic Plant) for the "Seamless Fastening of Atlas Blocks". The 2nd prizes of 750 rubles were awarded to: 1) Ya. L. Bratslavskiy, V. M. Varzugin, Yu. N. Galitskiy, O. F. Shetler and V. P. Stepanov (NRKCh) for "Technology of the Use of Standard Bases (tipovaya osnova)". 2) I. V. Gurevich, V. M. Varzugin, E. O. Radovil'skaya, O. D. Shetler, L. I. Zaykova for "Technology of the Manufacture of Combined Diapositives" (NRKCh). 3) D. A. Larin (Moskovskoye AGP (Moscow AGP)) for "Reduction of Work in Evaluating the Accuracy of Symmetric Geodetic Nets Formed by Figures of Regular Shape". 4) N. V. Shreyber (Novosibirskoye AGP (Novosibirsk AGP)) for "Light Collapsible Ladder of Dural for Prospecting". - The 3rd prizes of 500 rubles each were awarded to : 1) I. F. Shevaldin (Yakutskoye AGP (Yakutsk AGP)) for "Establishment of Fixed Points by the Method of Thawing by Means of Vapor". 2) Y. D. Ol'shanskiy (Yakutskoye AGP (Yakutsk AGP)) for "Construction of an Overhead Trolley for Timber Transport". 3) I. A. Kyzin (Moskovskoye AGP (Moscow AGP)) for "Variation in the Attachment of Photographs on the STD-2". 4) V. P. Zarubin (Moskovskoye AGP (Moscow AGP)) for "Raising of Geodetic Signs by 5-7 Meters". 5) D. I. Smirnov, I. V. Gurevich, Z. I. Aleksandrova, V. M. Varzugin, V. K. Kirillov and I. Ye. Kislyakov (NRKCh) for "Technology of the Completion and Edition of Topographic Maps by the Photorelief Method". 6) M. F. Glushanin (Minskaya kartograficheskaya fabrika (Minsk Cartographic Institute)) for "Vertical Piling Machine for Brochures". 7) A. A. Vanyov (Tashkentskaya kartograficheskaya fabrika (Tashkent Cartographic Institute)) for "Mechanism for the Loading of Trucks With Paper Rolls". 8) A. N. Tsokolenko (Ukrainskoye AGP (Ukrainian AGP)) for "Replacement of the Arc Lamp for the Heliographic-printing Machine KP-1 by an Illuminating Device With Luminescent Lamps DS-40". 9) G. M. Grigor'yev (Sverdlovskoye AGP (Sverdlovsk AGP)) for "Ruler for Drawing in the Preparation of Map Compilations and Final Compilations". 10) L. G. Izrailev (Severo-Zapadnoye AGP (North-west AGP)) for "Improvement of the Contact Mechanism in the Micrometer by Vodar". 11) S. M. Ambryev (Moskovskoye AGP (Moscow AGP)) for "Formulas and Form for a More Rational Computation of Superelevations From the Trigonometric Leveling". 12) D. G. Vil'ner (Sverdlovskoye AGP (Sverdlovsk AGP)) for "New Numbering and Painting of Leveling Staffs". 13) G. M. Grinberg (Moskovskoye AGP (Moscow AGP)) for "Formulas and Table for Extreme Divergences Between the Free Terms of Polar and Base Conditions Computed on a Plane and on a Ball". - Besides, the following suggestions were approved by the jury: 1) V. T. Trykov (Sverdlovskoye AGP (Sverdlovsk AGP)), "Underframe for Observations From the Telescopic Tower". 2) B. V. Osinskiy

Card 1/6

Card 2/6

Card 3/6

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

SOV/6-59-7-4/25

Results of the Competition for the Best Improving Suggestion

(Severo-Zapadnoye AGP (North-west AGP)) Template (palette) for Determining the Corrections of Centering and Reducing With an Auxiliary Scale for Determining the Corrections of the Curvature of the Image of the Geodetic Line and of the Spheric Excess". 3) V. G. Mauyerer (Moskovskoye AGP (Moscow AGP)), "Variation of the Construction of the Heliotrope". 4) G. M. Shlefendorf (Moskovskoye AGP (Moscow AGP)), "Zero Thermostat for the Gravimeters of the GAK-2K-type". 5) P. I. Popov (Moskovskoye AGP (Moscow AGP)), "Device for Cutting Aluminum". 6) A. I. Fikhnan and S. M. Grinberg (Moskovskoye AGP (Moscow AGP)), "Prospecting Mast". 7) Ya. I. Negnevitskiy, N. A. Pashukevich and K. F. Glushanin (Minskaya kartograficheskaya fabrika (Minsk Cartographic Institute)), " A Workbench Device for Mixing Offset Colors". 8) I. L. Gintsberg (Tashkentskaya kartograficheskaya fabrika (Tashkent Cartographic Institute)), "Device for Grinding the Edges of Plate Glass". 9) A. A. Yaukov (Tashkentskaya kartograficheskaya fabrika (Tashkent Cartographic Institute)), a) "Mechanism for Inclining the Grinding Case". b) "Mechanism for Lifting the Trough With the Balls". 10) V. I. Yurchenko and S. A. Lonshteyn (Tashkentskaya kartograficheskaya fabrika (Tashkent Cartographic Institute)), "Automatic Switch-off of Arc Lamps". 11) I. V. Vasil'yeva (Tashkentskaya kartograficheskaya fabrika (Tashkent Cartographic Plant), "Increase in the Durability of Light-sensitive Rubber Solution (Adhesive)". 12) V. M. Sher (Kiyevskaya kartograficheskaya fabrika (Kiyev Cartographic Plant), "Correspondence of the Stroke-elements on Topographic Maps With the Letters on the Machine Printing Forms". 13) V. V. Dozrikov, S. F. Yakunin (Rizhskaya kartograficheskaya fabrika (Riga Cartographic Plant), "On the Improvement in the Construction of Mechanisms for Pressing-on the Inking Rollers and Friction Drums on the Offset Machines 'Planeta-Super-Kvinta'". 14) A. Ya. Simanovskiy (Rizhskaya kartograficheskaya fabrika (Riga Cartographic Plant), "A Rational Method of Making Positives of Printing Forms of Relief Printing on Tracing Paper for Printing Books on Offset Machines". 15) O. M. Yankovskiy (Rizhskaya kartograficheskaya fabrika (Riga Cartographic Plant), "Synchronization and Automatization of the Switching on and off of Arc Lamps and of the Suction Fan in the Copying Department". 16) V. F. Alempiyev (Rizhskaya kartograficheskaya fabrika (Riga Cartographic Plant), "Variation in the Technology of Making Sets of Outline Maps of the Fifth Class". 17) V. V. Il'yushin (Rizhskaya kartograficheskaya fabrika (Riga Cartographic Plant), "Preparation of Collecting- and Corresponding Positives by the Method of the Washed-out Relief on 'viniproz'". 18) V. M. Dudochkin (Tbilisskaya kartograficheskaya fabrika (Tbilisi Cartographic Plant), "Switching off the Motor of the Compressor on the Copying Frame by Means of the Change Lever for Lifting the Glass and by Means of the Vacuum". 19) D. I. Matkava (Tbilisskaya kartograficheskaya fabrika (Tbilisi Cartographic Plant), "Device for Laying on the Negatives in Copying". 20) N. M. Serbin (Tbilisskaya kartograficheskaya fabrika (Tbilisi Cartographic Plant), "Device for Drying Paper on Offset Machines". 21) S. M. Konstantinova (Tbilisskaya kartograficheskaya fabrika (Tbilisi Cartographic Plant), "Progressive Method and Procedure for the Preparatory Work in Calculating and Plotting the Geographic Network on Maps to Be Compiled". 22) K. I. Mironov (NRKCh) "A Workbench for Repairing the Guides of the Offset Machine". 23) Yu. P. Tarasov (NRKCh) "Device for Regulating the "taler" of the Offset Machine". 24) Ye. K. Klyuchanskaya and S. V. Nesterova (NRKCh) "Improving the Method of Precipitating the Silver Nitrate in Used Solutions".

Card 4/6

Card 5/6

Card 6/6

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

3(4) SOV/6-59-10-19/21

AUTHOR: Trykov, V. T.

TITLE: A New Graduation and Painting of Leveling Rods

PERIODICAL: Geodeziya i kartografiya, 1959, Nr 10, p 69 (USSR)

ABSTRACT: In the leveling of fourth order even experienced scientists make mistakes of several meters. To eliminate these, scientists suggested to improve the method of observations, others to paint the leveling rods. The suggestions of the first group were taken into account in the specifications for leveling of the first, second, third, and fourth order of 1957. The most valuable suggestion made by the second group is that by D. G. Vil'ner, collaborator of the Sverdlovskoye aerogeodezicheskoye predpriyatiye (Sverdlovsk Aerogeodetical Organization): "New Graduation and Painting of Leveling Rods". He suggests to change the traditional method of graduating and painting (Fig). Samples of the new rods were tested in field work at the beginning of 1958. The detachments Nr 82 and Nr 84 judged the new rods positively. There is 1 figure.

Card 1/1

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

ACC NR: AR6034731 (A) SOURCE CODE: UR/0124/66/000/008/V039/V039

AUTHOR: Pashkov, P. O.; Sedykh, V. S.; Trykov, Yu. P.

TITLE: Failure of edges of metallic bar flats under pulsed loading

SOURCE: Ref. zh. Mekhanika, Abs. 8V291

REF SOURCE: Sb. Materialy Nauchn. konferentsii. Sovnarkhoz Nizhne-Volzhsk. ekon. r-na. Volgogradsk. politekhn. in-t T. 1. Volgograd, 1965, 309-313

TOPIC TAGS: detonation velocity, shear, metal failure

ABSTRACT: Bar flats made of various metals were thrown against a prismatic steel sample with the use of flat explosive charges. The throwing was mostly parallel, and partly at a small angle of incidence with varying air gaps or without them. The length and width of the thrown flats exceeded the respective dimensions of the stationary sample. A correlation was established between the velocity of detonation of the explosive and the angle of shear forming over the perimeter of the thrown plate (the angle between the surface of failure and the bar flat plane). Changes in the thickness of the flats (made of titanium alloy, 18-8 steel LO-62-1 brass, AMr 5BM

Card 1/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

ACC NR: AR6034731

aluminum alloy, in the throwing speed or charge level (ranging from 50 mm to 130 mm), as well as exceeding the dimensions of the flats over those of the stationary sample did not affect the shear angle. At a detonation velocity of 1750 m/sec, the shear angle was about 87 degrees, and at 3500 m/sec velocity, the angle was about 52 degrees. Orig. art. has 3 bibliographic titles. [KP]

SUB CODE: 20/

Card 2/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

L 09390-67 EWP(k)/EWT(m)/EWP(w)/EWP(v)/EWP(t)/ETI IJP(c) JD/HM

ACC NR: AR6033108 SOURCE CODE: UR/0137/66/000/007/E005/E005

34
33

AUTHOR: Kazak, N. N.; Sedykh, V. S.; Trykov, Yu. P.

TITLE: Formation of the white phase on impact of titanium and steel plates

SOURCE: Ref. zh. Metallurgiya, Abs. 7E29

REF SOURCE: Sb. Materialy Nauchn. konferentsii. Sovnarkhoz Nizhne-Volzhsk. ekon. r-na. Volgogradsk. politekhn. in-t. T. 1. Volgograd, 1965, 347-350

TOPIC TAGS: collision parameter, impact parameter, white phase, welding, microhardening

ABSTRACT: The composition and structure of the so called "white phase" created on collision of Ti with steel are independent of the collision parameters of the plates. Within the limits of each section of the "white phase" its microhardness is equal to 880—940 Hv. The hardness of the "white phase" remained constant during changes of the material base having Armco iron, steel 3, and carbon steel as a base. The microhardness of the "white phase" somewhat decreases during heating welds at >700C and increased aging (0.75—2.0 hours) at a constant temperature for various gages of Ti plates. The relative amount of the "white phase" in the weld area is

Card 1/2

UDC: 621.791.1.011:669.14.018+669.295

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

L 09390-67

ACC NR: AR6033108

determined by impact velocity, increasing in proportion to the kinetic energy introduced during welding with the plate used for impact. V. Fomenko. [Translation of abstract]

SUB CODE: 11, 13/

Card 2/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

ACC NR: AR6029511 SOURCE CODE: UR/0137/66/000/006/I066/I066

AUTHOR: Kazak. N. N.; Sedykh, V. S.; Trykov, Yu. P.

TITLE: Effect of heating on the strength of the bimetal titanium-steel

SOURCE: Ref. zh. Metallurgiya, Abs. 6I464

REF SOURCE: Sb. Materialy Nauchn. konferentsii. Sovnarkhoz Nizhne-Volzhsk. ekon. r-na. Volgogradsk. politekhn. in-t. T. 1. Volgograd, 1965, 351-353

TOPIC TAGS: metal heat treatment, titanium containing alloy, bimetal / BT1 titanium containing alloy, ST3 steel

TRANSLATION: The strength properties of the bimetal Ti-alloy BT-1 + ST 3 steel were studied, after preliminary heating to various temperatures (the maximum temperature was 1000°C) for 45 min with subsequent air cooling. A sharp drop of σ_b was initiated after heating at 700°C, while at 1000°C, the strength of the combination practically decreased to zero. The change of the strength properties of the bimetal were associated with the occurrence of diffusion processes between Ti and Fe at heating temperatures above 700°C and by the formation of a brittle compound of Ti with Fe and carbides in the boundary layer. L. Gordiyenko.

SUB CODE: 11,13

Card 1/1 UDC: 669.018.9

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

CA

The effect of the composition of the water on the whiteness of materials when bleached. D. A. Andronikov and G. P. Trykova. *L'no-pen'no-shutnaya Prom.* 6, No. 4, 35-6(1936); *Chem. Zentr.* 1938, I, 774.—The use of river water instead of distd. water in the bleaching of linen with hypochlorite can either improve or impair the bleaching action. The different action depends upon the Fe content of the water. M. G. Moore

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

KACZMAREK, Zdzislaw; TRYKOZKO, Elzbieta

Application of the method of quantiles to estimation of the Pearson distribution. Acta geophys Pol 12 no.1:5-12'64

1. Department of Hydrology, Technical University, Warsaw.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

P/0053/64/000/002/0062/0068

ACCESSION NR: AP4022666

AUTHOR: Trykozko, Rajmund

TITLE: The effect of heat treatment of the thermoelectric properties of black cadmium oxide

SOURCE: Przeglad elektroniki, no.2, 1964, 62-68

TOPIC TAGS: CdO, cadmium oxide, thermoelectricity, thermoelectric property, black CdO, black cadmium oxide

ABSTRACT: Results are given of research on the temperature conditions of electrical conductivity and thermoelectric strength of cakes of cadmium oxide in relationship to the way that the samples were made and the conditions of measurement. An interpretation is given of the results of the measurements. "In conclusion the author sincerely thanks Dr. Wlodzimierz Scislowski for directing the work as well as for suggestions and advice given while the work was being prepared for print." Orig. art. has: 4 figures, 9 formulas and 1 table.

ASSOCIATION: Wydz. Mech. Precyzyjnej, Politechnika Warszawska (Department of

Card 1/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

ACCESSION NR: AP4022666

Precision Mechanics, Warsaw Polytechnical Institute)

SUBMITTED: 06Apr63 DATE ACQ: 08Apr64 ENCL: 00

SUB CODE: GE, MA NO. REF SOV: 002 OTHER: 007

Card 2/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

TRYKOZKO, Rajmund

Influence of heat treatment on the thermoelectric properties of black cadmium oxide. Przegl elektroniki 5 no.2:62-68 F'64

1. Wydzial Mechaniki Precyzyjnej, Politechnika, Warszawa.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

TRYLINSKI, W.

The influence of small transversal forces on the behavior of a shaft with the axial load mounted on pivot bearings. p. 6[illegible].

POMIARY, AUTOMATYKA, KONTROLA. Warszawa, Poland. Vol. 5, no. 2, Feb. 1959.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, no. 3, 1959.
Uncl.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

TRYLINSKI, W.; MONWALSKI, Z.

The method of forced joining for M 63 hard brass and sleeves of a diameter smaller than 6 mm. p. 149.

POMIARY, AUTOMATYKA, KONTROLA. Warszawa, Poland. Vol. 5, no. 2, Feb. 1959.

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

Uncl.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

TRYLINSKI, W.

TECHNOLOGY

PERIODICAL: PRAZA Y, AUTOMATKA, KONTROLA. Vol. 4, No. 7, July 1959

TRYLINSKI, W. Constant moment gears in clock transmissions. p. 33[illegible].

Monthly List of East European Accessions (EEAI) LC Vol. [illegible], No. 4
April 1959, Unclass.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

TRYLINSKI, W.

Remarks on the computation of force fits substantially transgressing the plasticity limit for diameters of less than 6 millimeters. p.441
(POMIARY, AUTOMATYKA, KONTROLA, Vol.2, No. 11, Nov. 1956, Warsaw, Poland)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 9, Sept. 1957, Uncl.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

TRYLINSKI, Wladyslaw, doc. dr inz.

String transmission with fixed string ends. Pomiary 7 no.8: 320-322 Ag '61.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

TRYLINSKI, W.

Hairsprings. p.476
(POMIARY, AUTOMATYKA, KONTROLA, Vol. 2, No. 12, Dec. 1956, Warsaw, Poland)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 9, Sept. 1957, Uncl.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

TRYLINSKI, W. (Doc. Dipl.-Ing.)

W. Trylinski (Warsaw), "Berechnung von Presspassungen bis 6mm Durchmesser bei grosser Ueberschreitung der Fliessgrenze," Feingeraetetechnik (Berlin), 6/10, October 1957, pp. 459-61.

Trylinski's co-worker, Dipl.-Ing. Zdzislaw Mrugalski, assisted him in his researches.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

TRYLINSKI, Wladyslaw, doc. dr. inz.

"Principles of precision mechanics" by Miroslav Hajn. Reviewed by Wladyslaw Trylinski. Pomiary 8 no.6:251-252 Je '62.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

TRYLINSKI, Wladyslaw, doc., dr., inz.

Variation of torque transmitted by involute spur gearings. Pomiary 8 no.4:160-164 Ap '62

1. Politechnika Warszawska, Katedra Podstaw Konstrukcji Prayrzadow Precyzyjnych, czlonck Komitetu Redakcyjnege miesiecznika "Pomiary Automatyka Kontrela"

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

ACC NR: AP6034788 SOURCE CODE: PO/0045/66/030/002/0277/0282

AUTHOR: Kaczmarek, E.; Trylski, J.

ORG: [Kaczmarek] Institute of Physics, Polish Academy of Sciences, Warsaw (Instytut Fizyki PAN); [Trylski] Institute of Theoretical Physics, Warsaw University, Warsaw (Instytut Fizyki Teoretycznej, Uniwersytet Warszawski)

TITLE: Two-center acceptor states in germanium and silicon. II. Two-center integrals

SOURCE: Acta physica polonica, v. 30, no. 2, 1966, 277-282

TOPIC TAGS: germanium, silicon, acceptor, two center acceptor state, crystal two center integral, Schechter wave function, Coulomb potential matrix element

ABSTRACT: The matrix elements of the Coulomb potential between the Schechter wave functions and the overlap integrals that are necessary to find the two-center acceptor states in germanium and silicon crystals were calculated. Orig. art. has: 1 figure and 8 formulas. [Based on authors' abstract] [DR]

SUB CODE: 20/ SUBM DATE: 19Feb66/ ORIG REF: 002/ OTH REF: 001/

Card 1/1

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

ACC NR: AP6034789 SOURCE CODE: PO/0045/66/030/002/0283/0292

AUTHOR: Kaczmarek, E.; Myszkowski, A.; Trylski, J.

ORG: [Kaczmarek, Myszkowski] Institute of Physics, Polish Academy of Sciences, Warsaw (Instytut Fizyki PAN); [Trylski] Institute of Theoretical Physics, Warsaw University, Warsaw (Instytut Fizyki Teoretycznej, Uniwersytet Warszawski)

TITLE: Two-center acceptor states in germanium and silicon. III. Numerical results

SOURCE: Acta physica polonica, v. 30, no. 2, 1966, 283-292

TOPIC TAGS: germanium, silicon, acceptor, acceptor ground state, acceptor two center state, crystal hole energy level

ABSTRACT: The energy levels of holes in two-center acceptor states were calculated for germanium and silicon crystals. It is found that one can probably use spherical eigenfunctions of the acceptor ground state in calculating hopping probability only in effects dominated by acceptor pairs of large separations and large energy difference. In other cases it is necessary to use more complex

Card 1/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

ACC NR: AP6034789

one-center eigenfunctions. Orig. art. has: 10 figures, 2 tables, and 2 formulas. [DR]
[Based on authors' abstract]

SUB CODE: 20/ SUBM DATE: 19Feb66/ ORIG REF: 002/

Card 2/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

ALATORTSEV, S.A., prof., doktor tekhn.nauk; ANDREYEV, A.V., kand.tekhn. nauk; ANCHAROV, I.L., inzh.; BALINSKIY, S.I., inzh.; BELOUSOV, V.G., inzh.; VINNITSKIY, K.Ye., kand.tekhn.nauk; VLASOV, V.M., inzh.; VORONTSOV, N.P., kand.tekhn.nauk; GIPSMAN, M.K., inzh.; GLUZMAN, I.S., kand.tekhn.nauk; GUR'YEV, S.V., kand.tekhn.nauk [deceased]; DEMIN, A.M., kand.tekhn.nauk; YEGURNOV, G.P., kand. tekhn.nauk; YEFIMOV, I.P., inzh.; ZHUKOV, L.I., kand.tekhn. nauk; ZEL'TSER, N.M., inzh.; KOSACHEV, M.N., kand.tekhn.nauk; KOTOV, A.F., inzh.; KUDINOV, G.P., inzh.; LAPOVENKO, N.A., kand. tekhn.nauk; MAZUROK, S.F., inzh.; MEL'NIKOV, N.V.; MUDRIK, N.G., inzh.; NIKONOV, G.P., kand.tekhn.nauk; ORLOV, Ye.I., inzh.; POTAPOV, M.G., kand.tekhn.nauk; PRISEDSKIY, G.V., inzh.; RZHEVSKIY, V.V., prof., doktor tekhn.nauk; RYAKHIN, V.A., kand. tekhn.nauk; SIMKIN, B.A., kand.tekhn.nauk; SITNIKOV, I.Ye., inzh.; SOROKIN, V.I., inzh.; STASYUK, V.N., kand.tekhn.nauk; STAKHEVICH, Ye.B., inzh.; SUSHCHENKO, A.A., inzh.; TYUTIN, I.F., inzh.; TYMOVSKIY, L.G., inzh.; FISENKO, G.L., kand.tekhn.nauk; FURMANOV, B.M., inzh.; SHATAYEV, M.G., inzh.; SHESHKO, Ye.F., prof., doktor tekhn.nauk; TERPIGOREV, A.M., glavnyy red. [deceased];

(Continued on next card)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

ALATORTSEV, S.A.---(continued) Card 2.

KIT, I.K., zamestitel' glavnogo red.; SHESHKO, Ye.F., zamestitel' otv.red.; BUGOSLAVSKIY, Yu.K., red.; BYKHOVSKAYA, S.N., red.; DIONIS'YEV, A.I., kand.tekhn.nauk, red.; KOZIN, Yu.V., red.; SOKOLOVSKIY, M.M., red.; YASTREBOV, A.I., red.; DEMIDYUK, G.P., kand.tekhn.nauk, red.; KRIVSKIY, M.N., kand.tekhn.nauk, red.; LYUBIMOV, B.N., inzh., red.; MOLOKANOV, P.L., inzh., red.; REISH, A.K., inzh., red.; RODIONOV, L.Ye., kand.tekhn.nauk, red.; SLAVUTSKIY, S.O., inzh., red.; TRAKHMAN, A.I., inzh., red.; TRYMOVSKIY, L.G., inzh., red.; FIDELEV, A.S., doktor tekhn.nauk, red.; SHUKHOV, A.N., kand.tekhn.nauk, red.; TER-IZRAEL'YAN, T.G., red. izd-va; PROZOROVSKAYA, V.L., tekhn.red.; KONDRAT'YEVA, M.A., tekhn.red.

(Continued on next card)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8

ALATORTSEV, S.A.---(continued) Card 3.

[Mining; an encyclopedic dictionary] Gornoe delo; entsiklopedicheskii spravochnik. Glav.red.A.M.Terpigorev. Chleny glav. red.A.I.Baranov i dr. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po gornomu delu. Vol.10. [Mining coal deposits by the open-cut method] Razrabotka ugol'nykh mestorozhdenii otkrytym sposobom. Redkollegiia toma; N.V.Mel'nikov i dr. 1960. 625 p. (MIRA 13:2)

1. Chlen-korrespondent AN SSSR (for Mel'nikov).
(Coal mines and mining) (Strip mining)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910004-8"