"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7

HUNGARY/Magnetism - Ferromagnetism. F

Abs Jour : Ref Zhur Fizika, No 4, 1960, 8899

Author : Siklos Tivadar, Tyablikor SZ. V.
Inst : ---
Title : On the Quantum Theory of Ferromagnetic Anisotropy of Uniaxial Crystals.

Orig Pub : Magyar tud. akad. Kosp. fiz. Kutato int. Kozl., 1958, 6, No 5, 408-429

Abstract : The anisotropy of magnetic properties of ferromagnetic crystals is considered as a result of anisotropic interaction between the electrons of the unfilled atomic shells. The energy spectrum of the electrons of magnetic uniaxial ferromagnetic crystals are calculated as functions of the saturation magnetization, measured in directions parallel to an perpendicular to the principal axes of the crystal, on the temperature, and on the external magnetic field.

Card 1/1

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7

HUNGARY/Magnetism - Ferromagnetism. F

Abs Jour : Ref Zhur Fizika, No 10, 1959, 22779

Author : Siklos, Tivadar
Inst :
Title : Method of Second Quantization and Its Application to the Theory of Magnetism. II.

Orig Pub : Magyar fiz. folyoirat. 1958, 6, No 6, 579-598

Abstract : Survey and exposition of the work by S.V. Tyablikov and N.N. Bogolyubov, and also other works on the theory of ferromagnetism and antiferromagnetism. Bibliography, 35 titles.
For Part I see Referat Zhur Fizika, 1958, No 6, 13320.

Card 1/1

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7

PU FU-CHOUCH; TYABLIKOV,S.V.; SIKLOS, T.

Retarded and advanced green functions in the quantum theory of isotropic ferromagnetics. Acta phys Hung 11 no.4:323-331 '60. (EEAI 10:2)

1. Matematicheskiy Institut im. V.A.Steklova AN SSSR, Moskva, (for Pu Fu-chouch and Tiyablikov). 2. Ob"yeinennyy Institut yadrenykh issledovaniy, Dubna, SSSR (for Siklos)
(Quantum theory) (Magnetism)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7

TYABLIKOV, S.V.; SIKLOS, T.

Quantum theory of uniaxial anisotropic ferromagnetic crystals. Acta phys Hung 12 no.1:35-46 '60. (EEAI 10:2)

1. Matematicheskiy institut im. V.A.Steklova AN SSSR, Moskva, (for Tyablikov). 2. Ob"yedinennyy institut yadernykh issledovaniy, Dubna, SSSR (for Siklos). Predstavleno K.F.Novobatski
(Quantum theory) (Crystals) (Magnetism)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7

SIKLOS, Tivadar; TYABLIKOV, Sz.V. [Tyablikov, S.V.]

Resonance formulas for uniaxial anisotropic ferromagnetic substances. Koz fiz kozl MTA 9 no.4:193-196 '61.

1. Szovjetunio Tudomanyos Akademiaja Sztyiklov Matematikai Intezete, Moscow.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7

S/058/62/000/010/079/093
A061/A101

AUTHORS: Siklós, Tivadar, Tyablikov, Sz. V.

TITLE: Formulas describing ferromagnetic resonance in uniaxial ferromagnetic materials

PERIODICAL: Referativnyy zhurnal, Fizika, no. 10, 1962, 79, abstract 10E599 ("Magyar tud. akad. Közp. fiz. kutató int. közl." 1961, v. 9, no. 4, 193 - 196, III, IX, Hungarian; summaries in Russian and English)

TEXT: The temperature-time Green functions are used to derive formulas describing the ferromagnetic resonance absorption in uniaxial ferromagnetic materials. Specimen shape and respective demagnetizing factors are not taken into account in the calculation.

[Abstracter's note: Complete translation]

Card 1/1

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7

VOROS, T.; SOLOV'YEV, V.G.; SIKLOS, T.; SARANTSEVA, V.R., tekhn. red.

An investigation of properties of transuranic elements. Dubna, Ob"edinennyi in-t iadernykh issledovanii, 1962. 23 p. (No subject heading)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7

SIKLOS, Tivadar

Quantum theory of the spontaneous magnetism of ferromagnetic materials by means of considering the dipole-dipole interaction. Koz fiz kozl MTA 9 no.5/6:279-282 '61.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7

SIKLOS, Tivadar

Application of the two-time temperature Green's function method in the theory of magnetism. Koz fiz kozl MTA 10 no.5:341-356 '62.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7

TYABLIKOV, C.V.; SHIKLOSH, T. [Siklos, T.]

Resonance formulas for uniaxial ferromagnetic substances. Acta phys Hung 14 no.4:331-334 '62.

1. Matematicheskiy institut im. V.A. Steklova A.N. SSSR, Moskva, SSSR (for Tyablikov). 2. TSentral'nyy institut fizicheskikh issledovaniy, Budapesht.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7

H/016/63/000/003/001/003
D249/D307

AUTHOR: Siklós, Tivadar

TITLE: Superconductivity - type interactions in the atomic nucleus

PERIODICAL: Fizikai Szemle, no. 3, 1963, 67-71

TEXT: In the course of the development of theoretical nuclear physics, two fundamental models of atomic nuclei are encountered. These are the models assuming strong interactions among the nucleons; and the independent particle models. The shell model, which is an independent particle model, interpreted the ground states of a large number of atoms with odd mass number, their parity and spin. There were no interpretations however of the quadrupole moments of atoms with odd mass numbers, and of the intensities of E2 electrical quadrupole transitions. A brief outline is given of the unified model of atomic nuclei, taking the collective effects into consideration. The superconductivity-type interactions in atomic nuclei are discussed by application of Bogolyubov's variation prin-

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ciple. Nucleon interactions can be divided roughly into two parts. The long range part of the interaction creates a medium intensity field, the existence of which is the basis of the independent particle models. The short range part of the interactions leads to the superfluid-type models. In the case of light nuclei, results of a study by V.G. Solov'yev are outlined. A super-fluid model of the nuclei was developed by Solov'yev et al. From this model the energy spectra of all even-even number nuclei of the rare earth metals and transuranics were calculated. Finally, brief comments are made about the interpretation of changes in the structure of nuclei in the case of α, β, γ transitions, with the aid of the superfluid model. There are 3 Soviet-bloc references.

ASSOCIATION: Központi Fizikai Kutató Intézet Elméleti Fizikai Laboratórium (Central Research Institute of Physics, Theoretical Physics Laboratory)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7

VIDA, Miklos; KORANYI, Gyorgy, dr.; SZILAGYI, Antal; DESTEK, Endre; FERENCZ, Mihaly; DITZ, Erno; DIOSZEGHY, Daniel, dr.; SCHUNK, Rudolf; SIKLOSI, Jozsef; RETEZAR, Arpad

Research, planning, and education in the gas industry. Energia es atom 13 no.3:112-116 Mr '60.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7

SIKLOSI, Lajos

Remarks before the recreation season. Competetion and automation at the Kobanya Textile Works. Munka 10 no.4:10-11 Ap '60.

1. Szakszervezetek Orszagos Tanacsa Udulesi Foigazgatosaganak h. vezetoje.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7

SIKLOSI, Peter

Methods for the establishment of material and energy balances in chemical industry plants. Veszprem vegyip egy kozl 6 no.4:361-364 '62.

1. Aluminiumipari Terrezo Intezet, Budapest.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7

SIGMO"D, Gyorgy, dr.; SIKLOSI, Peter; KAPTAY, Gyorgy

Correlation computation by electroic calculating machines at alumina factoriesl.Koh lap 95 no.3:97-102 Mr '62.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7

[illegible], Enure, [illegible]; [illegible], Margit

Dolomite rocks in the [illegible] series of the [illegible] mountains.
Foldt kozl [illegible] no. [illegible] Ap-Je '64.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7

VRBOVSKY, L.; DEMKOVA, A.; SELECKY, F.V.; Technicka spolupraca: SIKLOVA, M.

Protective effect of diethylaminoethylamide of dehydroabietic acid (substance E-25) in CaCl2-induced arrhythmias in rats. Cas. lek. cesk. 102 no.19:527-531 10 My '63.

1. CSAV, Chemicky ustav SAV, Bratislava, riaditel akademik J. Vasatko.

(PHENANTHRENES) (MYOCARDIAL DEPRESSANTS)
(ARRHYTHMIA) (CALCIUM) (CHLORIDES)
(RATS)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7

SIKO, A.

"Seepage through rolled earth dams" p. 176, (VIZUGYI KOZLEMENYEK. HYDRAULIC PROCEEDINGS, No. 1, 1953, Budapest, Hungary)

SO: Monthly List of East European Accession, L.C., Vol. 2, No. 11, Nov. 1953, Uncl.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7

STROS, Frantisek; SIKOLA, Richard

Hydroscopic properties of dehydrated fodder yeast. Kvasny prum 11 no.3:56-57 Mr '65.

1. Research Institute of Distillation and Canning Industry, Prague. Submitted December 9, 1964.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7

SIKOLENKO, F.S.

Surgeon's tactics in danger of gastroduodenal hemorrhage from peptic ulcer. Khirurgiia no.7:41-42 Jl '55 (MLRA 8:12)
(PEPTIC ULCER, hemorrh.
surg.)
(HEMORRHAGE
peptic ulcer, surg.)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7

SIKOLENKO, F.S. (Tbilisi)

Closed injury of pancreas not affecting other organs. Khirurgiia 32 no.2:60 F '56. (MLRA 9:7)

(PANCREAS, wounds and injuries
closed, isolated, ther.)
(WOUNDS AND INJURIES
pancreas, closed isolated, ther.)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7

SIKOLENKO, F.S.

Treatment of acute peritonitis with antibiotics. Khirurgiia 32 no.7: 62-63 Jl '56. (MLRA 9:11)

(PERITONITIS, ther.
antibiotics)
(ANTIBIOTICS, ther. use
peritonitis)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7

SIKOLENKO, F.S.

Modified Radzievskii operation in prolapse of the rectum. Khirurgiia Supplement:48 '57. (MIRA 11:4)
(RECTUM—SURGERY)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7

SIKOLENKO, F.S., polkovnik meditsinskoy sluzhby

Treatment of fractures of the femur by the method of intraosseous fixation. Voen.-med.zhur. no.3:70-72 Mr '61. (MIRA 14:7)
(FEMUR--FRACTURES) (INTERNAL FIXATION IN FRACTURES)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7

SIKOLENKO, F.S. (Chekhov, Moskovskoy oblasti, 1-ya Vokzal'naya ul. d.39, kv.2)

Abstracts of articles received by the editors. Ort. travm. i protez. 23 no.10:80-81 O '62. (MIRA 17:10)

1. Iz Chekhovskogo bol'nichno-poliklinicheskogo ob"yedineniya Moskovskoy oblasti (glavnyy vrach - V.A. Dement'yev).

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7

SIKOLENKO, F.S.

Results of the treatment of hip fractures. Khirurgiia 40 no.5:129-133 My '64. (MIRA 18:2)

1. Chekhovskoye gorodskoye bol'nichnoye ob"yedineniye Moskovskoy oblasti (ispolnyayushchiy obyazannosti gravnoye vracha I.K. Pyatykh).

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7

SIKOLENKO, V., (g. Sukhumi)

Compensation of ground noise in audio frequency amplifiers.
Radio no.4:60-61 Ap '57. (MLRA 10:5)
(Amplifiers, Electron-tube)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7

SIKOLENKO, V. F., ORAVETS, Y., FROLOV, N. S., KAZAKOV, V. A., SKRYL, I. I., DVORETSKIY, A. S. SEREBRYAKOV, R. A., KOLESOV, I. V.

"Choice of Coordinates in Reagrd to the Entrance of Particles into an Emulsion Chamber (STsU-1),

Joint Institute of Nuclear Research, Dubna, USSR.

report submitted for the IAEA conf. on Nuclear Electronics, Belgrade, Yugoslavia 15-20 May 1961

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7

ACCESSION NR: AR4032164 S/0058/64/000/002/A039/A039

SOURCE: Ref. zh. Fiz., Abs. 2A337

AUTHORS: Dvoretskiy, A. S.; Kazakov, V. A.; Kolesov, I. V.; Oravets, Yu.; Sikolenko, V. F.; Skry*l', I. I.; Frolov, N. S.

TITLE: Installation for automatic registration of the coordinates of a particle entering a pellicle stack

CITED SOURCE: Tr. 5-y Nauchno-tekhn. konferentsii po yadern. radioelektron. T. 4. M., Gosatomizdat, 1963, 15-27

TOPIC TAGS: high energy particle interaction, emulsion technique, electronic particle identification, particle trajectory recording, particle trajectory photography

TRANSLATION: An automatic installation is described, combining the emulsion technique for high-energy particle interactions and the

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7

ACCESSION NR: AP4029694

the best method of hardening uranium with a view to limiting its increasing radiation. The tests made in this connection included hardening the uranium samples in the beta- and gamma-phases, followed by the slow-cooling and water-cooling methods. The test results indicate that the texture of hardened uranium is determined primarily by the parametersof the heat treatment of the metal, and the following conclusions are therefore justified: 1) the texture of hardened uranium depends on the nature of the heat treatment but primarily on the duration of exposure to high-temperature phases; 2) the greatest destruction of the texture was noted in the samples that had been heat-treated under the effect of tensions produced by thermic gradients or external efforts, and 3) in the case of low and moderate heating speeds, the texture of hardened uranium is determined to a large extent by the technology of the uranium production and the duration of its exposure in the beta-phase before the hardening. Orig. art. has: 9 figures.

ASSOCIATION: None

SUBMITTED: 30May63 DATE ACQ: 01May64 ENCL: 00

SUB CODE: TH, NS NR REF SOV: 015 OTHER: 005

Card 2/

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7

L 11381-63 EWT(m)/BDS AFFTC/ASD

S/120/63/000/002/012/041

55
54

AUTHOR: Kolesov, I.V., Sikolenko, V.F., Skryl', I.I., and Frolov, N.S.

TITLE: An instrument for photographing discharges in spark counters 19

PERIODICAL: Pribory i tekhnika eksperimenta, March-April 1963, v. 8, no. 2, 54-58

TEXT: The article describes a device for taking pictures of discharges in spark counters from two mutually perpendicular directions and reference marks with a single frame of film in a moving-picture camera that need not be greatly modified for this purpose. The instrument is part of a system for determining the points at which particles enter emulsions. Control is either automatic or manual from a separate control unit; there is provision for double-exposure prevention and malfunction indication. The position of sparks may be determined to within ± 0.1 mm. There are five figures.

ASSOCIATION: Joint Institute for Nuclear Research

Card 1/2

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7

ORAVEC, J. [Oravets, Yu.]; SIKOLENKO, V.F.

Generator of high-power pulses of small length with a steep rise and its use in measuring the mobility of electric charges in gases. Chekhosl fiz zhurnal 14 no. 3:196-202 '64.

1. Ob"yedinennyy institut yadernykh issledovaniy, Laboratoriya vysokikh energiy, Dubna, SSSR.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7

SIKOLOV, N. G.

USSR/Electricity
Motors, Electric
Generators, Electric

Oct 48

"Static Characteristics of Series Motors, Fed by a Series Generator," Docent A. S. Sandler, Cand Tech Sci, N. G. Sikolov, Cand Tech Sci, Moscow Power Eng Inst imeni Molotov, 3 pp

"Elektrichestvo" No 10

Subject systme is widely used in low-power drives of metal-shearing machines. Existing literature mainly descriptive. Presents detailed analysis of characteristics.

PA 22/49T12

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7

L 58702-65 EWT(m)/EWP(w)/EPF(n)-2/EWA(d)/T/EWP(t)/EWP(b)/EWA(c) Pu-4
IJP(c) JD/JG

ACCESSION NR: AP5016587 UR/0363/65/001/005/0715/0720
546.881 + 546.883 + 546.882 + 546.881 + 546.883 + 546.77.541.123.3

AUTHOR: Nefedov, A. P.; Sokolovskaya, Ye. M.; Grigor'yev, A. T.; Sikolova, I. G.

TITLE: Phase diagram of the ternary systems V - Ta - Nb and V - Ta - Mo

SOURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 1, no. 5, 1965, 715-520

TOPIC TAGS: tantalum alloy, vanadium alloy, niobium alloy, molybdenum alloy, tantalum compound, vanadium compound, phase diagram

ABSTRACT: This study was carried out by means of microscopic analysis, high-temperature noncontact thermal analysis, hardness and microhardness measurements, x-ray analysis, and determination of the temperatures of the start of fusion. In each ternary system, alloys were prepared in two sections: in a section with a constant content of 10 at. % Nb (or Mo) and in a radial section with a constant ratio (at. %) V:Ta = 2:1. A total of 68 alloys was prepared by fusion in an arc furnace in argon. Data obtained for the alloys in the cast, homogenized, and quenched state were used to plot phase diagrams for the two ternary systems. The components were found to form a continuous series of solid solutions which, as the temperature was lowered toward compositions adjoining the

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L 58702-65

ACCESSION NR: AP5016587

binary system V - Ta, underwent transormations due to the formation of an ordered phase based on the binary compound TaV_2. X-ray analysis showed that in the V - Ta - Nb system the crystal lattice and cell constants of the ternary ordered phase are the same as those of the binary Laves phase TaV_2: a = 5.058 A, c = 8.250 A, c/a = 1.631, z = 4. In the V - Ta - Mo system, the ordered phase, while retaining the crystal structure of TaV_2, has slightly larger c and a constants. Thus, for the alloy with the radial section at 5 at. % Mo, a = 5.090 A, c = 8.322 A, c/a = 1.635. Orig. art. has: 7 figures.

ASSOCIATION: Khimicheskiy fakul'tet, Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Chemistry Department, Moscow State University)

SUBMITTED: 28Jan65 ENCL: 00 SUB CODE: IC, MM

NO REF SOV: 003 OTHER: 002

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Card 2/2

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7

RUBITSYN, Mikhail Nikolayevich, dots.; LAPTEV, Vladimir Pavlovich, starshiy prepodavatel'; RUD', Boris Viktorovich, assistent; KUROVSKIY, Ivan Frantsevich, starshiy prepodavatel'; LYUBOSHITS', Moisey Il'ich, dotsent; PETROVICH, Aleksandr Grigor'yevich, starshiy prepodavatel'; BALYKIN, Mikhail Kirillovich, assistent; PEN'KEVICH, Vladimir Aleksandrovich, assistent; OSHEROVICH, Lyubov' Il'inichna, dotsent; CHULITSKIY, Vyacheslav Ivanovich, assistent; Prinimal uchastiye SIKOLOVSKIY, A.V.; KAPRANOVA, N.V., red.; PESINA, S.A., tekhn.red.

[Laboratory work on the strength of materials]Laboratornye raboty po soprotivleniiu materialov. Minsk, Izd-vo M-va vysshego, srednego spetsial'nogo i professional'nogo obrazovaniia BSSR, 1961. 272 p. (Strength of materials--Testing) (MIRA 15:8)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7

SIKOLOV, VASILIY ANDREYEVICH

PHASE I BOOK EXPLOITATION 1141

Sikolov, Vasiliy Andreyevich

Metody analiza gazov (Methods of Gas Analysis) Moscow, Gostoptekhizdat, 1958. 374 p. 4,000 copies printed.

Ed.: Kleymenova, K.F.; Tech. Ed.; Polosina, A.S.

PURPOSE: The book is a practical guide for workers in industrial laboratories and in scientific research institutions.

COVERAGE: The book describes up-to-date methods for gas analysis and the newest apparatus used in chemical absorption of individual gases, separation of gas mixtures by low-temperature rectification, chromatography, mass spectrometry, etc. New methods for spectrum analysis, radiometric analysis, and various physical and physicochemical determinations used in gas analysis are discussed. Accurate equations for the solubility of gases were given by I.R. Kirchevskiy. The modern theory of adsorption phenomenon is dis-

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7

SIKOLOVSKIY, V.V.

4E4f

2
1 - 4E4f

6464 AEC-tr-2054
ON THE EQUATIONS OF THE THEORY OF PLASTICITY. V. V. Sikolovskii (Sikolovsky). Translated from Prikkl. Mat. i. Mekhan. 19, 41-54(1955). 20p.

The fundamental relations between the stress components and the rate of deformation under the general condition for plasticity are formulated without assuming non-compressibility of the material. The equations for plane plastic equilibrium are investigated in detail and different methods of transforming them are shown. A method of solving these equations is given in the form of trigonometric series. The forms of the condition for plasticity are examined in which the equations for plane plastic equilibrium have the simplest coefficients. (auth)

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USSR/Physical Chemistry - Crystals, B-5

Abst Journal: Referat Zhur - Khimiya, No 1, 1957, 274

Author: Sikol'skaya, I. L.

Institution: None

Title: Surface Migration of Tungsten Atoms in an Electric Field

Original Periodical: Zh. tekhn. fiziki, 1956, Vol 26, No 6, 1177-1184

Abstract: The temperature dependence of rearrangement processes (transition of W-edges from the smoothly rounded to a bound form) and obliteration (reverse) processes was investigated in an electron gun. These processes do not depend on the sign of the field, i.e., the W atoms migrating over the surface in the electric field can be considered as dipoles moving in the direction of the potential gradient. The energy of activation of rearrangement and obliteration is 2.36 and 3.2 ev, respectively. On the basis of the theoretical presentations of I. Stranskiy and L. I. Frenkel, it has been calculated from the experimental data that the energy of interaction between 2 nearest lying

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PAGE 08/23/2000 CIA-RDP86-00513R001550530005-7

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7

SIKOLYA, F.

The possibilities of installing the impulsive telecommand system into the safety system equipment of railroads. p. 444.
(Kozlekedestudomanyi Szemle, Vol. 6, no. 11/12, Nov./Dec. 1956. Budapest, Hungary)

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

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7

KOSCIOLEK, Ewa; SIKORA, Aleksandra

Effect of large doses of serotonin on the blood picture in the rabbit. Roczn. pom. akad. med. Swierczewski 9:377-386 '63.

1. Z Zakladu Fizjologii Pomorskiej Akademii Medycznej Kierownik: prof. dr E. Mietkiewski i z I Kliniki Pediatrycznej Pomorskiej Akademii Medycznej Kierownik: prof. dr J. Starkiewiczowa.
(SEROTONIN) (PHARMACOLOGY) (BLOOD CELL COUNT)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7

FYDRYK, Janusz; SIKORA, Aleksandra; SZUBINSKI, Zbigniew

Concentration capacity of the urine according to its osmolality and specific gravity in infancy. Ped. Pol. 40 no.4:363-367 Ap'65.

1. Z I Kliniki Pediatrycznej Pomorskiej Akademii Medycznej w Szczecinie (Kierownik: prof. dr. med. J. Starkiewiczowa).

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7

SIFONA, Aleksandra

The Sixth Convention of Polish Hydrobiologist and General Meeting of the Polish Society of Hydrobiology. Kosmos biol 14 no.1:93-97 '65.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7

SIKORA, Anton, inz.

Passing of ice cakes through low-pressure dams. Vodohosp cas 10 no.1:66-81 '62.

1. Vyskumny ustav vodohospodarsky, Bratislava.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7

SIKORA, Anton, inz.

"Water resources management" by [prof., mgr., inz.] Alexander Tuszko. Reviewed by Anton Sikora. Vodohosp cas 10 no.4:421 '62.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7

FRANKIEWICZ, Bogumil, mgr; SIKORA, Antoni, mgr.

Industrial psychology in metallurgical industries; methods and results of researches of job fitness. Wiad hut 17 no.11:319-323 N '61

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7

SIKORA, ANTON, inz.

Examination of the shaft spillway and bottom outlets of the Ruzin Waterworks. Vod hosp 13 no.11: 433 '63.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7

FRANKEWICZ, Bogumil; SIKORA, Antoni

Methods and results of psychological studies on the selection of candidates for positions particularly connected with industrial safety in the mining industry. Wiadom gorn 12 no. 11:387-391 N '61.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7"

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SI[illegible], [illegible]; [illegible], [illegible].

An attempt to determine the productivity of poplar sites according to the soil fertility of existing poplar stands. [illegible].
[illegible] (Instytut Badawczy Leśnictwa i Instytut Technologii Drewna) Warszawa [illegible] Vol. 13, 1955

So. East European Accessions List Vol. 5, No. 9 September 1956

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7

POLAND

CEROWSKI, Zenon; SIKORA, Regina

1. Physics Dept. B, Silesian Polytechnic (Katedra Fizyki B Politechniki Slaskiej), Gliwice (for Cerowski); 2. Institute of Iron Metallurgy (Instytut Metalurgii Zelaza), Gliwice (for Sikora)

Cracow, Postepy fizyki, No 3, May/June 1966, pages 239-246

"Study of ultrasonic waveform in liquid by optical method."

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7

SIKORA, B.B.

Boundary value problem for an elliptic system of first-order equations with high derivatives on the boundary. Dop. AN URSR no.11:1428-1431 '63. (MIRA 17:12)

1. Ivano-Frankovskiy pedagogicheskiy institut.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7

L 07166-67 EWP(k)/EWT(1)

ACC NR: AP6029334 SOURCE CODE: PO/0047/66/017/003/0239/0246

35
B

AUTHOR: Cerowski, Zenon; Sikora, Bogdan

ORG: Physics Department B, Slask Polytechnic School, Gliwice (Katedra Fizyki B Politechniki Slaskiej w Gliwicach); Institute of Iron Metallurgy, Gliwice (Instytut Metalurgii Zelaza w Gliwicach)

TITLE: Studies of ultrasonic waveforms in liquids by optical methods

SOURCE: Postepy fizyki, v. 17, no. 3, 1966, 239-246

TOPIC TAGS: ultrasonic wave, optical method, light diffraction

ABSTRACT: The paper reviews methods for determining the ultrasonic fields in liquids by styding the diffraction of light by ultrasonic structures. The methods of determining the waveform which are reviewed are: (1) that of L. G. Mikhailov and V. A. Shutilov (who also proposed a method of measuring the intensity of an ultrasonic beam from the light distribution in the diffraction pattern); (2) a method consisting in determining the harmonic content; (3) determination of the spectral composition by the method of L. Zankel and E. A. Hiedemann; (4) the method of B. D. Cook. All the methods discussed presuppose the phase modulation of light by an ultrasonic grating, and therefore apply to narrow ultrasonic beams. Orig. art. has: 5 figures and 17 formulas.

SUB CODE: 20/ SUBM DATE: none/ ORIG REF: 002/ OTH REF: 005

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SIKORA, B.S.

Index and normal solvability of a boundary value problem for a system of high-order elliptic equations. Dop. AN URSR no.1:26-30 '64. (MIRA 17:4)

1. Ivanovo-Frankovskiy pedagogicheskiy institut. Predstavleno akademikom AN UkrSSR Yu.A.Mitropol'skim [Mytropol's'kyi, IU.O.].

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7

, Danuta

POLAND/Chemical Technology. Chemical Products and their Application. Glass. Ceramics. Building Materials. J-12

Abs Jour: Referat Zh.-Kh., No 8, 1957, 27675

Author : Leon Winogradow, Danuta Sikora.
Inst : Krakov Academy of Mining.
Title : Experiments of Mineralizator Application for Lowering Burning Temperature of Industrial Porcelain.

Orig Pub: Szklo i ceram., 1956, 7, No 10, 290-293.

Abstract: Experimenting with the utilization of mineralizers (M) for lowering the burning temperature of electrotechnical porcelain (EP) was carried out at the Academy of Mining at Krakov (People's Republic of Poland). The main EP paste consisted of (in % by weight): mixture of kaolins and clays - 53.8, felspar - 21.3; quartz - 24.9; one of the following M-s was added to it (in % by weight): ZnO - 1 and 2, CuO - 2, MnO_2 - 2, Fe_2O_3 - 1. Tiles 50 x 50 x 5 mm large were formed of pastes prepared by the plastic

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POLAND/Chemical Technology. Chemical Products and their Application. Glass. Ceramics. Building Materials. J-12

Abs Jour: Referat Zh.-Kh., No 8, 1957, 27675

method, the tiles were dried and burned at 900, 1000, 1160, 1200, 1250, 1300 and 1350° 8 hours keeping the final temperature in the duration of one hour. It appeared after the determination of water absorption and volumetric weight that the temperature of complete sintering of EP without an added M was below 1350° and that of EP with an added M was 1280° in the average; the water absorption of the mass with 1% of added Fe_2O_3 was 0.12% even at 1350°, therefore it was not used further. Specimens of other pastes with added M-s were pressed by the semidry method at 300 kg per sq. cm, burned at 1280° 17 hours, and the mineralogical composition, the dielectric constant ε, tg δ (angle of losses at 60 cycles), disruptive voltage and specific volumetric resistance of burnt specimens were determined. All the specimens answered the requirements presented to EP; the specimens with 2% of MnO_2 possessed the best electrical proper-

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/ POLAND/Chemical Technology. Chemical Products and their Application. Glass. Ceramics. Building Materials. J-12

Abs Jour: Referat Zh.-Kh., No 8, 1957, 27675

ties, the next were specimens with 2% of MgO and 1% of ZnO; specimens with 1% of ZnO had the best mechanical properties, and the next were the specimens with 2% of ZnO and with 2% of MgO. The addition of 2% of CuO influenced the rise of tg δ unfavorably. Pastes of EP with the addition of MnO_2, MgO and ZnO were chosen for tests under semidomestic conditions.

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7

S/881/57/000/001/008/013
A066/A126

AUTHORS: Gomonay, V. I., Parlag, A. M., Sikora, D. I., Shkoda-Ul'yanov, V. A.

TITLE: The use of the "equilibrium spectrum" of photons for calculating γn-reaction cross sections from neutron yield curves for heavy elements by the "photon difference" method

SOURCE: Uzhgorod. Universitet. Nekotoryye problemy sovremennoy fiziki yadra i elementarnykh chastits; sbornik statey, no. 1, 1957, 79 - 85

TEXT: A comparison between the results of previous papers (V. A. Shkoda-Ul'yanov. O novom metode opredeleniya secheniy reaktsiy - A new method of determining reaction cross sections. Nauchnyye zapiski Uzhgorodskogo Gosudarstvennogo universiteta, v. 18, 1956; V. I. Gol'danskiy and V. A. Shkoda-Ul'yanov. ZhETF, 28, 629 (1955)) and data published by L. Katz and A. G. Cameron (W. J. Phys., 29, 518 (1951) shows that the photon difference method is a suitable means for calculating

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γn-reaction cross sections from the excitation curves obtained for thick specimens. It is noted that a tabular form of the function $I(\varepsilon,\varepsilon_0)$ is particularly convenient for the purpose. A table of this function for photon energies ranging from 8.25 to 27.75 Mev is presented in an appendix. There is 1 table.

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23330 S/058/61/000/006/014/063
A001/A101

24.6600 (1057, 1482)

AUTHORS: Grizhko, V.M., Sikora, D.I., Shkoda-Ul'yanov, V.A., Abramenkov, A.D., Parlag, A.M. Shramenko, B.I., Fisun, A.N.

TITLE: An attempt to determine cross sections of γn-reactions in lead by using a very thick target and a monoenergetic electron beam

PERIODICAL: Referativnyy zhurnal, Fizika, no. 6, 1961, 96, abstract 6B392 ("Dokl. i soobshch. Uzhgorodsk. un-t. Ser. fiz.-matem. n.", 1960, no.3, 1-4)

TEXT: The authors discuss preliminary results of calculations of the cross section of reaction (γ, n) in Pb from the data, obtained by them earlier, on the yield of photoneutrons from a very thick lead target using a monoenergetic electron beam (RZhFiz, 1961, 1B471). The authors are of the opinion that the accuracy of reproducibility of σ(γ, n) in the region $>$ 15 Mev is by no means worse than in the region of lower energies. They point out that the method of "difference of photons", which was applied formerly for calculations of the cross section, yields the accuracy by 20 - 30% poorer in the region of energies beyond the giant resonance; this can lead to the smoothing out of a possible secondary maximum. The

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An attempt to determine cross sections ... 23330 S/058/61/000/006/014/063
A001/A101

authors conclude that the developed method of determining cross sections is especially effective for detecting secondary maxima in the region of γ-quanta energies higher than 15 Mev. The problem of absolute accuracy of the method remains open in the article.

A. Moiseyev

[Abstracter's note: Complete translation]

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7

S/058/61/000/007/008/086
A001/A101

24.6731

AUTHORS: Grizhko, V.M., Sikora, D.I., Shkoda-Ul'yanov, V.A.

TITLE: Precision monitor of electron beams

PERIODICAL: Referativnyy zhurnal. Fizika, no. 7, 1961, 43, abstract 7B84 ("Dokl. i soobshch. Uzhgorodsk. un-t. Ser. fiz.-matem.n", 1960, no. 3, 5-7)

TEXT: The authors describe a monitor of electron beams which represents an improved Faraday cylinder connected with an integrating circuit (d-c amplifier with 100% negative feedback). A detailed description of the monitor design and the block-diagram of the integrator are presented. The test of the monitor on a 30-Mev linear accelerator has shown that the precision of monitoring the electron beam amounts to 0.7%, and the errors arising due to ionization currents do not exceed 0.05%.

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L. Landsberg

[Abstracter's note: Complete translation]

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S/056/60/038/005/002/050
B006/B070

26.2244
26.2240

AUTHORS: Grizhko, V. M., Sikora, D. I., Shkoda-Ul'yanov, V. A., Abramenkov, A. D., Shramenko, B. I., Fisun, A. N.

TITLE: Determination of the Yield of Photoneutrons From Lead Under the Action of Electrons Having Energies From 10.5 to 20.5 Mev (Method of Thick Absorber)

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1960, Vol. 38, No. 5, pp. 1370-1373

TEXT: In an earlier publication (Ref. 1), some of the authors have calculated the photoneutron yield for some elements with the help of the Belen'kiy-Tamm equilibrium spectrum. Now the authors have experimentally studied the yield of photoneutrons from a lead block that is practically of infinite thickness and absorbs the monochromatic electron beam completely, and compared the results with those of the theory. The present paper describes this work. The experimental method is essentially that suggested by V. I. Gol'danskiy and V. A. Shkoda-Ul'yanov. The experimental arrangement is schematically shown in Fig. 1; the beam catcher can be used simultaneously as a monitor of the electron beam and as the source of

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83569
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B006/B070

Determination of the Yield of Photoneutrons From Lead Under the Action of Electrons Having Energies From 10.5 to 20.5 Mev (Method of Thick Absorber)

photoneutrons. The linear accelerator of the Institute (E_{max} = 30 Mev, 50 cps, current pulse duration 1 μsec) was used as the source of electrons. The energy resolution of the apparatus was 0.4%. The neutron yield was measured by a boron counter (Ref. 7) working in the range of direct proportionality between the number of neutrons and the current striking the target. The measurements were made with a current of the order of 10^{-10} a. The counter was calibrated with a standard source of Ra+Be. Fig. 2 shows the measured dependence of the photoneutron yield from the thick lead block on the energy of the electrons between 10 5 and 20.5 Mev (Curve 2). It also shows (Curves 1 and 3) the photoneutron yield calculated from the Belen'kiy-Tamm equilibrium spectrum and the photoneutron excitation functions of Refs. 9 and 10. Every experimental point is the resultant of 5 - 7 measurements. The statistical error in the counting of pulses does not exceed 2%. The background intensity below the threshold of the (γ,n) reaction on carbon is 0.5%, and above this it is ≥ 3%. In the latter case, the neutrons are produced predominantly in the graphite collimator.

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[illegible] and December 19, 1959 (after revision)

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7

S/089/61/010/003/012/021
B102/B205

AUTHORS: Gomonay, V. I., Sikora, D. I., Shkoda-Ul'yanov, V. A.

TITLE: Some comments on the determination of the yield of photoneutrons from thick specimens

PERIODICAL: Atomnaya energiya, v. 10, no. 3, 1961, 265-266

TEXT: This "Letter to the Editor" presents a comparison of the results of measurements of the photoneutron yield from thick targets (of some radiation lengths) of various authors, and also a critical discussion of the data obtained. In addition, experimental results are compared with calculations of the present authors. With the exception of some data on the (γ,n) reaction on lead, the experimental results have been taken from Ref. 1 (V. M. Grizhko et al., Zh.eksperim. i teor. fiz., 38, 1370, 1960) and Ref. 2 (W. Barber, W. George, Phys.Rev. 116, 1551, 1959), which deal with the yield of photoneutrons from several elements bombarded with monoenergetic electrons in the range of 10-35 Mev. The measuring techniques used in the two investigations were slightly different; the results obtained for lead targets are shown by curves 1 and 2 of Fig. 1.

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Using data on the (γ,n) excitation functions for lead from Refs. 3 and 4 (Phys.Rev. 91, 659 (1953) and 108, 77 (1957)), the authors calculated the photoneutron yields from infinitely thick targets by means of the Belen'kiy-Tamm equilibrium spectrum. Results are shown by curves 3, 3', and 4 of Fig. 1. Curve 3' lies between 1 and 2 and was obtained on the assumption that the (γ,n) reaction cross section in lead is constant at energies of 22-30 Mev and equal to that obtained for 18-22 Mev. Regarding the pair-production cross section it was supposed that $\sigma_{pair}=\sigma_{B.H.}+4.0+46/\omega$; $\sigma_{B.H.}$ is the pair-production cross section according to Bethe-Heitler; $\omega=E/m_oc^2$; E denotes the electron energy, and m_oc^2 the energy of the electron at rest. A comparison between v on 3' and 1 and 2 leads to the assumption that at energies above 21 Mev, the photoneutron production cross section in lead is bound to increase. Assuming infinitely thick targets layers and using the Belen'kiy-Tamm spectrum, the yields of photoneutrons for copper and uranium were also calculated. Here, the curves diverge much more, and the theoretical curves are steeper

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Some comments on the determination ... S/089/61/010/003/012/021
B102/B205

and higher in both cases. There are 2 figures and 6 references: 2 Soviet-bloc and 4 non-Soviet bloc.

SUBMITTED: August 31, 1960

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7

S/185/62/007/002/003/016
D299/D302

24 6/10

AUTHORS: Hryshayev, I.O., Parlah, O.M., Sikora, D.I., Shkoda-Ul'yanov, V.O., and Shramenko, B.I.

TITLE: Determining the principal characteristics of photonuclear reactions of certain chemical elements and their possible use in practice

PERIODICAL: Ukrayins'kyy fizychnyy zhurnal, v. 7, no. 2, 1962, 138 - 143

TEXT: The work was reported to the Ukrainian Conference on the Peaceful Uses of Atomic Energy, Kyyiv, March 1961. The determination of the yield and of the cross section of photonuclear reactions as a function of the energy of the incident photons, is important for understanding the interaction mechanism of photons and nuclei. The difficulties encountered in measuring the photoneutron yield and the cross sections are reviewed. These difficulties can be overcome by using thick specimens instead of thin ones, and a monochromatic electron-beam instead of a continuous photon spectrum. In the references, theoretical- and experimental methods were de-

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D299/D302

Determining the principal ...

veloped; thereby the Belenkiy-Tamm equilibrium-spectrum was used for calculating the photoneutron yields for thick absorbers (U, Bi, Pb, Cu, Al and C); the calculations involved use of the excitation functions of γn-reactions for these elements, as known at that time; in the case of Pb, these functions differed from investigator to investigator. In order to ascertain the reasons for this discrepancy, the authors investigated the photoneutron yield in Pb, for electron energies of 10.5 to 20.5 Mev. The experiments were conducted at the linear accelerator of the Physicotechnical Institute of the AS UkrRSR. Similar measurements were also carried out by W.C. Barber and W.D. George in the USA (Ref. 14: Phys. Rev., 116, 1551, 1959). The results of Ref. 14 (Op.cit.) were in agreement with the present work, yet the experimental procedure differed somewhat; it is noted that the use of a spectrum, different from the Belenkiy-Tamm spectrum, did not give satisfactory results in Ref. 14 (Op. cit.). Hence the Belenkiy-Tamm spectrum can be successfully used for calculating the photoneutron yield in the energy range under consideration; such calculations, in conjunction with experimental measurements in thick specimens, can be also used for verifying the

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7

Determining the principal ... S/185/62/007/002/003/016
D299/D302

ASSOCIATION: Uzhhorods'kyy derzhuniversytet (Uzhhorod State University); Fizyko-tekhnichnyy instytut (Physicotechnical Institute), Kharkiv

SUBMITTED: May 4, 1961

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APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7

GRISHAYEV, I.A. [Hryshaiev, I.O.]; DEM'YANOV, A.V. [Dem'ianov, O.V.]; SIKORA, D.I.; SHRAMENKO, B.I.

Efficiency of a secondary emission monitor in the 15-70 Mev. energy range. Ukr. fiz. zhur. 8 no.9:1029-1030 S '63. (MIRA 17:8)

1. Fiziko-tekhnicheskiy institut AN UkrSSR, Khar'kov.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7

SIKORA, D.I.

Spectra of gamma quanta from primary electrons in infinite media.
Ukr. fiz. zhur. 9 no.7:697-701 Jl '64. (MIRA 17:10)

1. Uzhgorodskiy gosudarstvennyy universitet.

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L 26920-65 EWT(m) DIAAP DM
ACCESSION NR: AP5004001 S/0089/65/018/001/0028/0033

31
16
B

AUTHORS: Grishayev, I. A.; Sikora, D. I.; Shkoda-Ul'yanov, V. A.; Shramenko, B. I.

19

TITLE: Measurement of the photoneutron yield from copper and water targets of large thickness, and determination of the excitation functions of the (Gamma, n) reactions for O^{16} and Cu^{63} with the aid of the Belen'kiy-Tamm equilibrium photon spectrum

SOURCE: Atomnaya energiya, v. 18, no. 1, 1965, 28-33

TOPIC TAGS: photoneutron yield, excitation function, gamma neutron reaction, neutron reaction, photon spectrum, oxygen, copper

ABSTRACT: The photoneutron yield from samples of copper and water of practically infinite thickness, induced by electrons with energies up to 66 MeV, were measured with a secondary-emission monitor consisting of two stacks of aluminum foils of equal thickness (2.7

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mg/cm^2), each containing 10 foils 40 mm in diameter. The purpose of the experiment was to compare the resultant yield, obtained with a target thick enough to absorb completely the photons that are active in the (γ, n) reaction with the photoneutron yield calculated by the cascade theory using the known cross section of the (γ, n) reaction in the investigated nucleus. Conversely, from the experimental value of the photoneutron yield it is possible to calculate the cross section of the (γ, n) reaction and compare it to the values obtained by other methods where the results of the cascade theory are not employed. The monoenergetic bombarding electrons were obtained from the linear accelerator of the Fiziko-tekhnicheskiy institut (Physicotechnical Institute) AN UkrSSR. The data obtained, using electron energies up to 66 MeV, on photoneutrons produced in water by the (γ, n) reaction in O^{16}, show that the use of the equilibrium spectrum of photons is justified in the case of light elements. On the basis of these data and of the Belen'kiy-Tamm theory as developed in earlier papers by one of the authors (Shkoda-Ul'yanov, Collection:

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ACCESSION NR: AP5004001

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"Nekotoryye problemy sovremennoy fiziki yadra i elementarnykh chastits [Some Problems of Modern Physics of the Nucleus and of Elementary Particles], L'vov, State University Press, 1957, p. 89 and p. 55), are used to calculate the excitation functions of (γ, n) reactions for O^{16} and Cu^{63}. Results are compared with data by other authors, obtained with thin samples irradiated by bremsstrahlung gamma quanta, and are found to agree with the latter. It is noted in conclusion that in addition, the excitation functions of (γ, n) reactions in Cu^{63}, obtained by various methods from data on the photoneutron yield from thick samples in the giant-resonance region, are in reasonable accordance with each other. "The authors thank all the co-workers of the Fiziko-tekhnicheskiy institut (Physico-technical Institute) AN UkrSSR and the Department of Nuclear Physics of the Uzhgorod State University, who participated in the preparation, setup, and discussion of the experiments described, and also in the calculations, especially to A. K. Val'ter, V. I. Gol'danskiy, A. A. Krasnikov, V. V. Petrenko, G. L. Fursova, I. K. Nad', L. A.

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L 26920-65
ACCESSION NR: AP5004001

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Shabalin, A. E. Kost', A. M. Parlaga, N. P. Mazyukevich, M. P. Lorikyan, P. A. Medvedkov, and V. I. Startsev." Orig. art. has: 8 figures.

ASSOCIATION: None

SUBMITTED: 18Nov63 ENCL: 00 SUB CODE: NP

NR REF SOV: 004 OTHER: 013

Card 4/4

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7

L 4525-66 EWT(m)/FCC/T IJP(c)

ACC NR: AP5024639 SOURCE CODE: UR/0048/65/029/009/1706/1708

AUTHOR: Sikora, D.I.; Shkoda-Ul'yanov, V.A.

ORG: none

45
39
B

TITLE: Concerning the accuracy of the equilibrium photon spectrum at energies close to the energy of the primary electron /Report, All-Union Conference on Cosmic Ray Physics held at Apatity 24-31 August 1964/

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 29, no. 9, 1965, 1706-1708

TOPIC TAGS: electron, photon, cascade, spectral energy distribution, photonuclear reaction, neutron, mathematic method, integral equation, Volterra equation

ABSTRACT: The authors have employed the method of successive generations to calculate the equilibrium energy distribution of photons in electron-photon showers initiated in lead, copper, and water by 24 MeV electrons and have compared the results with available experimental data on the yield of photoneutrons in the bombardment of thick targets with electrons. The calculations were undertaken because there are discrepancies in the published data, and the method was selected because it is capable of giving accurate results at photon energies close to the primary electron energy. Approximate agreement was obtained for energies near the primary electron energy only for materials with low atomic number. It is suggested that the discrepancy may be due to inaccurate values of the critical energies for photodisintegration. A possible inaccuracy

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L 4525-66

ACC NR: AP5024639

in the calculations is still being investigated. It is pointed out that the method of V.I.Krylov (Tr. Matemat. in-ta im. V.A.Steklova, 28, 33, 1949) for solving Volterra integral equations, although it is very cumbersome, can be handled with computers and has the advantage that the accuracy can be continually improved without decreasing the integration step. In conclusion, the authors express their gratitude to A.K.Val'ter (deceased), I.P.Ivanenko, I.A.Grishayev, B.I.Shremenko, A.M.Parlag, and L.A.Shahalina for valuable discussions and assistance with the work. Orig. art. has: 5 formulas and 3 figures.

SUB CODE: MP/ SUBM DATE: 00/ ORIG REF: 008/ OTH REF: 006

Card 2/2

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7

Petroleum

CA
1951

Preparation of naphthas of low aromatic content for use in extraction. Franciszek Sikora and Andrzej Wachal. *Nafta* 6, 128-32, 162-5(1950).—The use of naphtha high in aromatic compds. (10-12% of C_6H_6 and C_7H_8) as a selective solvent is a potential health hazard in Polish refineries where the extn. operations frequently are effected in open vats. Expts. show that naphtha contg. a max. of 5% aromatic compds. can be readily obtained in yields of up to 38% by azeotropic distn. of crude naphtha with 15% of C_2H_5OH of 96% concn. This yield is higher than the yield of high-aromatic naphtha presently obtained from the same crude naphtha.

Bruno C. Metzner

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SIKORA, FRANCISZEK

Determination of water in cresol. Franciszek Sikora. *Nafta* (Poland) 10, 61-3(1954).—The method consists in measuring the vol. (V) of C_2H_2 generated by the action of H_2O present on CaC_2 at $t°$ and p mm. Hg pressure. The H_2O content is calcd fairly closely as $Y = 0.0577V(p - f)/(273 - t)m$ where f is the pressure of H_2O vapor at the temp. t. Though devised for testing the aq. cresol used in the solvent extn. of lubricating oils, the method is said to be applicable to any solvent. Bruno C. Metzner

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7

SIKORA, F.

1301. Arrangement of cold reflux for rectification equipment. F. Sikora. *Nafta (Krakow)*, 1956, 12, 98–100.—Petroleum spirits (benzene fractions) suitable for use as extraction solvents which are graded as 65–90, 70–100, and 80–120 are all obtained by rectification of raw gasoline. The production of this solvent is rising, and it has doubled itself between 1950 and 1955. In 1951 Häckmann's unit with cold reflux was put up. The article describes how this unit operates and how it has been brought on stream. Data of production are tabulated. M. S.

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7

SIKORA, H.

547.211-232 : 66.095.81

3470

Sikora H. The Nitration of Methane.

„Nitrowanie metanu". Przemysł Chemiczny, No. 3, 1954, pp. 138—141, 2 figs., 5 tabs.

A description of experiments over the nitration of technical methane (natural gas) in gaseous phase on a laboratory scale, by using nitric acid. The investigations established, in the first place, parameters for carrying out the reaction of methane nitration with nitric acid. These parameters are: — 1) the reaction temperature must be between 435° and 485°C; 2) the molar relationship of methane to nitric acid in the reaction mixture should be between 13 and 20 mols of methane to 1 mol nitric acid; 3) the period of contact of the gases in the reaction must be at least 0.31 sec.; 4) the surplus of oxygen — about 1.1 mol O_2 to 1 mol HNO_3 — increases the effectiveness of the reaction. Using these parameters a yield of nitro-methane can be obtained amounting to 21.5 per cent of the nitric acid used in the process.

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7

SIKORA, H

3908 622.235 : 622.35

Kawecki T., Sikora H. Shot Technique in Road Quarries.

„Technika strzelnicza w kamieniołomach drogowych". Przegląd Górniczy. No. 4, 1955, pp. 126—131, 7 tabs.

Division of Polish porphyry, melaphyre, basalt, gabbro and sandstone quarries into four groups according to their manageability. Results of mass shooting through drill-holes and chambers. Comparison of technical results and costs of the two methods of shooting. Drill-hole shooting gives better results in softer rocks, while in harder rocks chamber shooting is more effective. In the case of very hard rocks, a combination of the two methods is advisable.

GP ①

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POLAND/Chemical Technology. Chemical Products and Their Applications. Fertilizers. H

Abs Jour : Ref Zhur-Khimiya, No 6, 1959, 20038

Author : Litynski, Tadeusz; Jurkowska, Halina; Sikora, Henryk

Inst :

Title : Production of Ammonium Bicarbonate and Its Use as a Fertilizer.

Orig Pub : Przem. chem., 1958, 37, No 6, 408-411

Abstract : The problem concerning the expedient production of NH_4HCO_3 (I) from NH_3, and of CO_2 waste gas from the production of synthetic NH_3 is examined. Data on the production of I, the expansibility of vapors and solubility of I under different temperatures are

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H-2c

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7

SIKORA, I. (derevnya Alashki Malyye, Vitebskoy oblasti)

Winged defenders of the crops deserve our care! Nauka i zhizn' 29 no.3:16-17 Mr '62. (MIRA 15:7)
(Birdhouses)

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7

SIKORA, J.; PLUZEK, J.

Standardization of flat jaws for thread rolling. p. 500.

MECHANIK. (Stowarzyszenie Inzynierow i Technikow Mechanikow Polskich) Warszawa, Poland. Vol. 31, no. 10, Oct. 1958.

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

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7

SIROTA, J.

Research on screw-cutting tool prototypes. Biuletyn. P.V.

MECHANIK. (Stowarzyszenie Inzynierow i Technikow Mechanikow Polskich) Warszawa, Poland. Vol.32, no.3, March 1959

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

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7

SIAGRA, J.

Pneumatic machine chuck. p. 240.

MECHANIK. Warszawa, Poland. Vol. 32, no. 5, May 1959.

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

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7

MICHEJDA, Adam; SIKORA, Jan

Duplication of the lower segment of the ileum and the whole large intestine. Polski przegl. chir. 28 no.5:481-488 May 56.

1. Z II Kliniki Chirurgicznej A.M. we Wroclawiu, Kierownik: prof. dr. W. Bross i z Zakladu Anatomii Patologicznej A.M. we Wroclawiu, Kierownik: prof. dr. Z. Albertg, Wroclaw ul. Smoluchowskiego 52/8.

(ABNORMALITIES,
duplication of ileal lower segment & whole large intestine (Pol))
(INTESTINE, LARGE, abnormalities,
same)
(ILEUM, abnormalities,
same)

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7

SIKORA, Jerzy, mgr inz.

Many concepts of one entropy. Pt.1. Gosp paliw 11 no.11: 403-408 N '63.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7

SIKORA, Jerzy, mgr inz.

Many concepts of one entropy. Pt.2. Gosp paliw 11 no.12: 446-452 D'63.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7

SIKORA, Jerzy

Description of the SDB-500 type jet grinding machine. Gepgyartastechn 4 no. 2:91-92 F '64.

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7

P/046/62/007/003/008/008
D256/D308

AUTHORS: Sikora, Józef and Marszałek, Leszek

TITLE: 10^{-8} amp current integrator

PERIODICAL: Nukleonika, v. 7, no. 3, 1962, 198-200

TEXT: A cyclotron beam-current integrator is briefly described. The beam-current is fed via a capacitance to the input of a negative feed-back DC amplifier, the output voltage being proportional to the collected charge. This voltage after reaching a threshold value is used to operate a trigger circuit producing an output pulse fed to a recording counter. The range of measurements can be selected in steps from 0.5×10^{-6} to 5×10^{-8} amp corresponding to 1.5×10^{-6} and 8.6×10^{-8} coul/click respectively. There are 2 figures.

ASSOCIATION: Instytut fizyki jądrowej PAN, Kraków, Dział elektroniki (Institute of Nuclear Physics PAS, Krakow, Department of Electronics)

SUBMITTED: January, 1962

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7

SIKORA, Jerzy, mgr inz.

Progress in thermodynamics and schooling. Pt.2. Gosp paliw 12 no.10:331-335 O '64.

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7

SIKORA, Jerzy, mgr inż.

A symposium on technical thermodynamics. Gosp paliw [illegible] no.11: 389-390 N '64.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7

SIKORA, Jerzy, mgr inz.

Progress in thermodynamics and its teaching. Gosp paliw 12 no.12:404-408 D '64.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7

SIKORA, J.

M T

Technology of the gypsum plant "Dolina Nidy" (Nida valley, Poland). Józef Sikora. *Cement-Wapno-Gips* 11-(20), 134-141(1955). Details of the plant presently under construction are given. Gypsum stones in size up to 400 mm. are ground to fine powder in 2 stages. In the second stage grinding is accompanied by drying. The calciners are upright cylindrical vessels (with agitators), each of a capacity 100 tons/24 hrs. The calcined gypsum is matured for 2-3 hrs. in a covered tank of 80 cu.m. capacity (made of reinforced concrete). The maturing results in a more "plastic," more dense, and a better water-gypsum ratio when mixed with water for the manuf. of wall plaster. Flowsheets and details are given. P. J. Hendel

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[illegible]

[illegible] report review of progress in [illegible] technol [illegible] p. 34

[illegible], [illegible], Ind [illegible] vol. [illegible], [illegible], Feb. 1956

[illegible]

[illegible] vol. [illegible], [illegible] 10 [illegible] 1956

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550530005-7

Poland/Chemical Technology -- Chemical Products and Their Application. Silicates. Glass. Ceramics. Binders, I-9

Abst Journal: Referat Zhur - Khimiya, No 1, 1957, 1672

Author: Sikora, J.

Institution: None

Title: A Survey of Recent Physicochemical Research on Gypsum

Original Periodical: Cement. Wapno. Gips., 1956, Vol 12, No 5, 105-114; Polish

Abstract: A survey of postwar research on gypsum in Germany, England, and the USSR. The bibliography contains 8 items.

Card 1/1

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