SOTSKOV, B.

Course toward overall automation. Radio no.7:4-6 Jl '63.
(MIRA 16:7)

1. Chlen-korrespondent AN SSSR.
(Automation)

SOTSKOV, B. S.

"Reliability of instruments."

report submitted for the 3rd Intl Measurement Conf & 6th Intl Instruments & Measurements Conf, Stockholm, 14-19 Sep 64.

SIROTA, N.N., akademik, otv. red.; SOTSKOV, B.S., red.; ROZENBLAT, M.A., prof., red.; BASHKIROV, L.A., kand. khim. nauk, red.; KHOLYAVSKIY, S., red.izd-va; VOLOKHANOVICH, I., tekhn. red.

[Ferrites and contactless elements] Ferrity i beskontaktnye elementy; doklady. Minsk, Izd-vo AN BSSR, 1963. 418 p. (MIRA 17:3)

1. Vsesoyuznoye soveshchaniye po ferritam i po beskontaktnym magnitnym elementam avtomatiki. 3d, Minsk. 2. Akademiya nauk Bel.SSR (for Sirota). 3. Chlen-korrespondent AN SSSR (for Sotskov).

SOTSKOV, B. S.

"Reliability of instruments."

report submitted for Intl Fed of Automatic Control & of Information Processing Conf, 21-23 Sep 64.

BILIK, R.V.; ZHOZHIKASHVILI, V.A.; MITYUSHKIN, K.G.;
FRANGISHVILI, I.V.; SOTSKOV, B.S., otv. red.

[Contactless elements and remote control systems with time division of signals] Beskontaktnye elementy i sistemy telemekhaniki s vremennym razdeleniem signalov. Moskva, Nauka, 1964. 415 p. (MIRA 17:9)

1. Chlen-korrespondent AN SSSR (for Sotskov).

SOTSKOV, B.S., otv. red.; DEKABRUN, I.Ye., red.; ZOLOTYKH, B.N., red.; KUZNETSOV, R.S., red.; KIRILLOVA, Z.S., red.; SHUROVA, Yu.P., red.

[Electric contactors; transactions] Elektricheskie kontakty; trudy. Red. koll. B.S.Sotskov i dr. Moskva, Energiya, 1964. 502 p. (MIRA 17:8)

1. Vsesoyuznoye soveshchaniye po elektricheskim kontaktam i kontaktnym materialam. 3d, Moscow, 1962.

BERG,A.I.,glav.red.; TRAPEZNIKOV,V.A.,glav.red.; TSYPKIN, Ya.Z., doktor tekhn.nauk,prof.,red.; VORONOV,A.A., doktor tekhn.nauk,prof.,red.; SOTSKOV,B.S., doktor tekhn.nauk,red.; AGEYKIN,D.I., doktor tekhn. nauk, red.; GAVRILOV,M.A., red.; VENIKOV,V.A., doktor tekhn.nauk, prof.,red.; CHELYUSTKIN,A.B., doktor tekhn. nauk,red.; PROKOF'YEV, V.N., doktor tekhn.nauk,prof.,red.; IL'IN,V.A., doktor tekhn.nauk, prof.,red.; KITOV,A.I.,doktor tekhn.nauk,red.; KRINITSKIY, N.A., kand. fiz.-matem.nauk,red.; KOGAN,B.Ya., doktor tekhn.nauk, red.; USHAKOV,V.B., doktor tekhn.nauk,red.; LERNER,Yu.A., doktor tekhn. nauk,prof., red.; FEL'DBAUM, A.A.,prof., doktor tekhn.nauk,red.; SHREYDER,Yu.A., kand. fiz.-mat. nauk,dots.,red.; KHARKEVICH,A.A., akad., red.;TIMOFEYEV,P.V., red.; MASLOV,A.A.,dots.,red.; LEVIN, G.A., prof.,red.; LOZINSKIY,M.G., doktor tekhn.nauk,red.; NETUSHIL, A.V., doktor tekhn.nauk,prof.,red.; POPKOV,V.I.,red.; ROZENBERG, L.D.,doktor tekhn.nauk,prof.,red.; LIVSHITS,A.L.,kand.tekhn.nauk,red.

[Automation of production and industrial electronics] Avtomatizatsiia proizvodstva i promyshlennaia elektronika; entsiklopediia sovremennoi tekhniki. Moskva, Sovetskaia Entsiklopediia. Vol.3. Pogreshnost' resheniia - Teleizmeritel'naia sistema chastotnaia. 1964. 487 p. (MIRA 17:10)

1. Chlen-korrespondent AN SSSR (for Sotskov, Gavrilov, Timofeyev, Popkov).

MILOVZOROV, Vladimir Petrovich; SOTSKOV, B.S., retsenzent; MITYUSHIN, F.F., dots., retsenzent; RAKHMANOV, V.F., dots., retsenzent; NEGNEVITSKIY, I.B., dots., retsenzent; KOROL'KOV, N.V., kand. tekhn.nauk, red.

[Electromagnetic techniques] Elektromagnitnaia tekhnika. Moskva, Energiia, 1964. 511 p. (MIRA 17:12)

1. Chlen-korrespondent AN SSSR (for Sotskov). 2. Kafedra vychislitel'noy tekhniki i elementov vychislitel'noy tekhniki Moskovskogo aviatsionnogo instituta im. S.Ordzhonikidze (for Mityushin, Rakhmanov). 3. Moskovskiy energeticheskiy institut (for Negnevitskiy).

AVEN, O.A.; DVORETSKIY, V.M.; DOMANITSKIY, S.M.; ZALMANZON, L.A.; KRASSOV, I.M.; KRUG, Ye.K.; TAL', A.A.; KHOKHLOV, V.A.; BULGAKOV, A.A.; DEMIDENKO, Ye.D.; BERNSHTEYN, S.I.; YEMEL'YANOV, S.V.; LERNER, A.Ya.; MEYEROV, M.V.; PEREL'MAN, I.I., FITSNER, L.N.; CHELYUSTKIN, A.B.; ZHOZHIKASHVILI, V.A.; IL'IN, V.A.; AGEYKIN, D.I.; GUSHCHIN, Yu.V.; KATYS, G.P.; MEL'TTSER, L.V.; PARKHOMENKO, P.P.; MIKHAYLOV, N.N.; FITSNER, L.N.; PARKHOMENKO, P.P.; ROZENBLAT, M.A.; SOTSKOV, B.S.; VASIL'YEVA, N.P.; PRANGISHVILI, I.V.; POLONNIKOV, D.Ye.; VOROB'YEVA, T.M.; DEKABRUN, I.Ye.

Work on the development of systems and principles of automatic control at the Institute of Automatic and Remote Control during 1939-1964. Avtom. i telem. 25 no. 6:807-851 Je '64. (MIRA 17:7)

L 2967-66 EWT(d)/EWT(k)/EWP(l) JKT UR/0105/64/000/009/0093/0094
ACCESSION NR: AP5026357

AUTHOR: Baluyev, V. K.; Grudinskiy, P. G.; Izyumov, N. M.; Kulebakin, V. S.; Mirolyubov, N. N.; Sotskov, B. S.; Tsirlin, A. D.; Alekseyev, A. Ye.; Bogoroditskiy, N. P.; Berger, A. Ya.; Yavorskiy, V. N.; Nasledov, D. N.; Vasil'yev, D. V.

38
27
B

TITLE: Nikolay Nikolayevich Lutsenko (Obituary)

SOURCE: Elektrichestvo, no. 9, 1964, 93-94

TOPIC TAGS: electric engineering personnel

ABSTRACT: Doctor of Technical Sciences, Major General in the Technical Engineering Service, Professor N. N. Lutsenko died in May of this year after a long and serious illness. He graduated from the Moscow Higher Technical Academy in 1914 and was closely associated with his specialty of electrical engineering till the end of his life. He spent the first years of his practical activity at the Academy working in the electrical engineering laboratory of K. A. Krug. After that he began his career in the Soviet Army as a lowly laboratory assistant in the radiotechnical laboratory and worked his way up over thirty years to be head of the

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ACCESSION NR: AP5026357

Department of Electrical and Military Engineering. He wrote several books: "Alternating Currents," "The Theory of Alternating Currents," "Course in General Electrical Engineering," "Radio Engineering" and, together with his co-workers, problem books on "A Course in Alternating Currents" and "The Physical Principles of Electrical Engineering." He set up a number of special courses (military application of electric power, military portable electric power stations, electric equipment for armies, electrification of military engineering works, etc.) and also participated in many engineering projects with the Soviet Army. He has written many textbooks, monographs and articles on the theoretical and applied divisions of military electrical engineering. These include "Electric Circuits" and "Fundamentals for the Design and Planning of Mobile Electric Stations." Many of N. N. Lutsenko's students are working in sections of the Soviet Army, in scientific institutes and in colleges, and in industry. These students are continuing the work of their teacher, the founder of Soviet military electrical engineering. He received his professorship in 1938 and his doctorate in 1949. He has received the Order of Lenin, three "Red Banners," the Order of the "Red Star" and many medals. Orig. art. has: 1 figure.

ASSOCIATION: none
SUBMITTED: 00
NO REF SOV: 000
Card 2/2

ENCL: 00
OTHER: 000

SUB CODE: EE
JPRS

SOTSKOW, B.S. [Sotskov, B.S.]; MAKOWSKI, Karol, mgr inz. [translator]

Reliability of automatic control components and devices. Archiw automat 9 no.3:229-246 '64.

1. Institute of Automatic Control and Telemechanics, Moscow (for Sotskov). 2. Institute of Automatic Control of the Polish Academy of Sciences, Warsaw (for Makowski).

GAAZE-RAPOPORT, M.G., otv. red.; YAKOBI, V.E., otv. red.;
BERG, A.I., red.; GURFINKEL', V.S., red.; KOVALEVSKIY,
V.A., red.; KLEYNENBERG, S.Ye., red.; MANTEYFEL', B.P.,
red.; NAUMOV, N.P., red.; PARIN, V.V., red.; POLYANTSEV,
V.A., red.; SOTSKOV, B.S., red.;

[Bionics] Bionika. Moskva, Nauka, 1965. 475 p. (MIRA 18:12)

1. Akademiya nauk SSSR. Nauchnyy sovet po kompleksnoy probleme
"Kibernetika."

BERG, A.I., glav. red.; TRAPEZNIKOV, V.A., glav. red.; TSYPKIN, Ya.Z., doktor tekhn. nauk, prof., red.; VORONOV A.A., prof., red.; AGEYKIN, D.I., doktor tekhn. nauk red.; GAVRILOV, M.A., red.; VENIKOV, V.A., doktor tekhn. nauk, prof., red.; SOTSKOV, B.S., red.; CHELYUSTKIN, A.B., doktor tekhn. nauk, red.; PROKOF'YEV, V.N., doktor tekhn. nauk, prof., red.; IL'IN, V.A., doktor tekhn. nauk, prof., red.; KITOV, A.I., doktor tekhn. nauk, red.; KRINITSKIY, N.A., kand. fiz.-mat. nauk, red.; KOGAN, B.Ya., doktor tekhn. nauk, red.; USHAKOV, V.B., doktor tekhn. nauk, red.; LERNER, A.Ya., doktor tekhn. nauk, prof., red.; FEL'DBAUM, A.A., doktor tekhn. nauk, prof., red.; SHREYDER, Yu.A., kand. fiz.-mat. nauk, red.; KHARKEVICH, A.A., akademik, red. [deceased]; TIMOFEYEV, P.V., red.; MASLOV, A.A., dots., red.; TRUTKO, A.F., inzh., red.; LEVIN, G.A., prof., red.; LOZINSKIY, M.G., doktor tekhn. nauk, red.; NETUSHIL, A.V., doktor tekhn. nauk, prof., red.; POPKOV, V.I., red.; ROZENBERG, L.D., doktor tekhn. nauk, prof., red.; LIFSHITS, A.L., kand. tekhn. nauk, red.; AVEN, O.I., kand. tekhn. nauk, red.; BLANN, O.M. [Blunn, O.M.], red.; BROYDA, V., inzh., prof., red.; BREKKL', L [Brockl, L.] inzh., knad. nauk, red.; VAYKHARDT, Kh. [Weichardt, H.], inzh., red.; BOCHAROVA, M.D., kand. tekhn. nauk, st. nauchn. red.

[Automation of production processes and industrial electronics] Avtomatizatsiia proizvodstva i promyshlennaia elektronika; entsiklopediia sovremennoi tekhniki. Moskva, Sovetskaia entsiklopediia. (MIRA 18:6) Vol.4. 1965. 543 p.

SOTSKOV, Boris Stepanovich DOMANSKIY, B.I., prof., doktor tekhn. nauk, retsenzent; KOLOSOV, S.P., prof., doktor tekhn. nauk, retsenzent; NEFEDOVA, V.I. dots., kand. tekhn. nauk, red.

[Principles of the calculation and design of electromechanical components of automatic and remote control systems] Osnovy rascheta i proektirovaniia elektromekhanicheskikh elementov avtomaticheskikh i telemekhanicheskikh ustroistv. Moskva, Energiia, 1965. 575 p. (MIRA 18:9)

SOTSKOV, B.S. (Moskva)

Possibility of an automation of measurement processes. Avtometriia no.1: 9-20 '65. (MIRA 18:7)

L 27232-66 EWP(k)/EWT(d)/EWP(h)/EWP(l)/EWP(v) IJP(c) BC

ACC NR: AM6000591 Monograph UR/

72

B+1

Sotskov, Boris Stepanovich

Principles of the calculation and design of electromechanical elements of automatic and remote control devices (Osnovy rascheta i proyektirovaniya elektromekhanicheskikh elementov avtomaticheskikh i telemekhanicheskikh ustroystv) Moscow, Izd-vo "Energiya," 1965. 575 p. illus., biblio. Textbook for students at institution of higher learning. 25,000 copies printed.

TOPIC TAGS: automatic control, remote control, electromagnet, automation equipment, automatic control equipment

PURPOSE AND COVERAGE: This book is intended to serve as a textbook for students at schools of higher technical education in the field of automatic and remote controls. It may also be useful for technical personnel in all branches of industry concerned with automation. The mechanical, thermal, electromechanical, and magnetic components encountered in automation and remote control for establishing continuity between the input and output signals by continuous and two-step conversion are considered. Considerable attention is paid to the problem of reliability. The general relationships which define reliability and the basic physical and physicochemical processes causing failures are investigated. The problems of the accuracy and stability of the components, also those related to the analysis

Card 1/3 UDC: 62-523.2

L 27232-66

ACC NR: AM6000591

of the performance and cost effectiveness are considered.

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Ch. II. Signal generation circuits -- 19

Ch. III. Basic characteristics and parameters of the components -- 43

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Ch. V. Thermal components -- 187

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Ch. VII. Electromagnetic and magnetic components with direct conversion (with variable resistance, inductance, mutual inductance, and e.m.f.) -- 483

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ACC NR: AM6000591

Ch. VIII. Electrical components (electrostatic, with nonlinear resistance and nonlinear capacity) -- 560

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SUB CODE: 13,09/ SUBM DATE: 21Jul65/ ORIG REF: 019

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L 27232-66
ACC NR: AM6000591

Ch. VIII. Electrical components (electrostatic, with nonlinear resistance and nonlinear capacity) -- 560

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SUB CODE: 13,09/ SUBM DATE: 21Jul65/ ORIG REF: 019

Card 3/3

L 26561-66 EWP(c)/EWP(k)/EWT(d)/EWP(h)/T/EWP(l)/EWP(v) IJP

ACC NR: AP6017388 SOURCE CODE: UR/0410/65/000/001/0009/0020

AUTHOR: Sotskov, B. S. (Moscow)

ORG: none

TITLE: Possibilities of automation of measurement processes

SOURCE: Avtometriya, no. 1, 1965, 9-20

TOPIC TAGS: automation, measurement, measuring apparatus

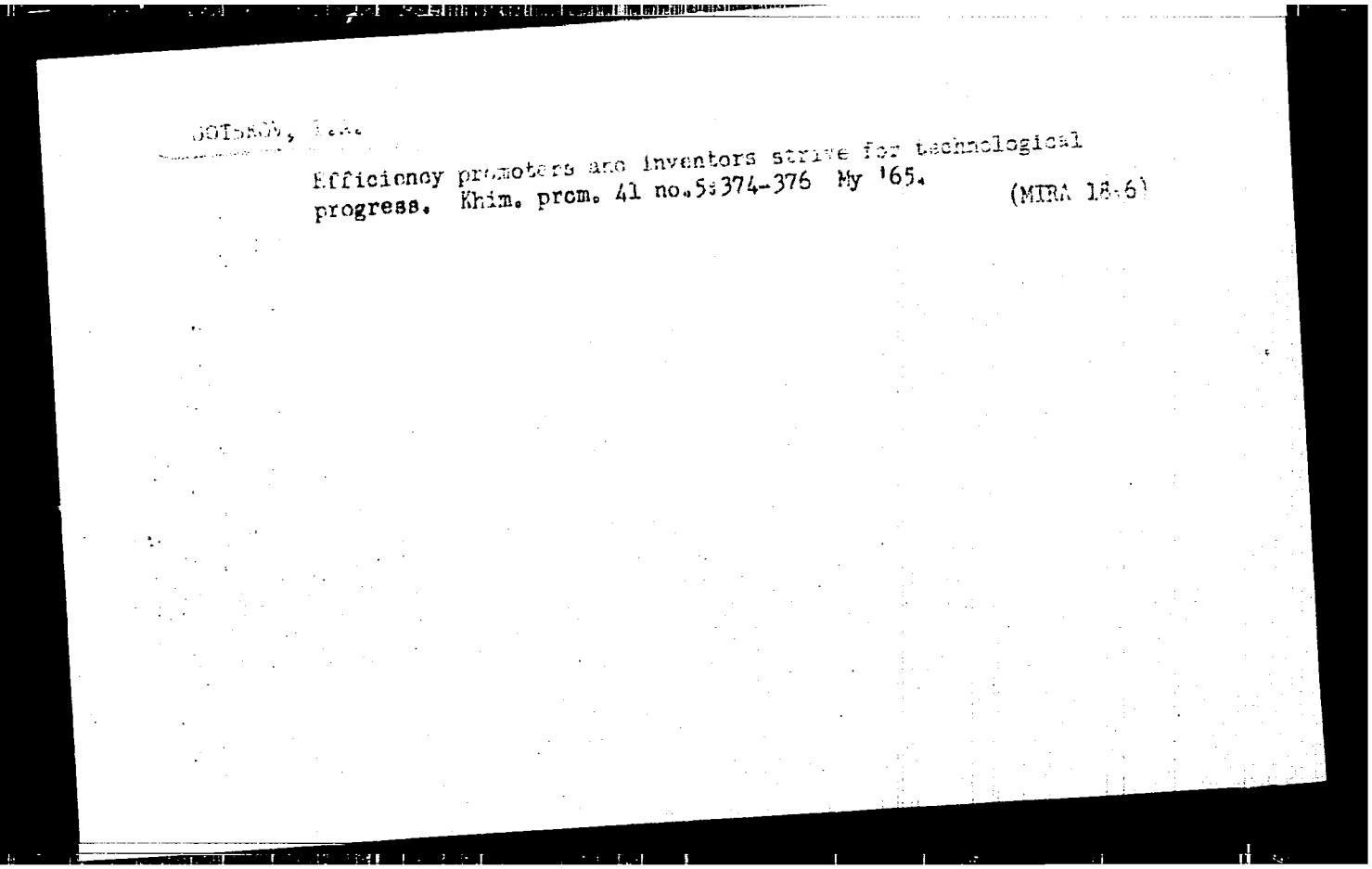
ABSTRACT: An analysis of the possibility of automation of measurement processes for various areas of science and technical investigation. The principle parameters to be controlled, the main principles of construction of centralized measuring devices and methods for economical evaluation of the expediency of automation of measurements are presented. Automated devices, laboratories and stations are expedient for usage where: man cannot be, or cannot be for long (long interplanetary flights, in deserts, etc); there are many places to be measured over a wide area; many parameters must be measured simultaneously; long continuous monitoring is required; a complex program of actions must be performed with great accuracy; a great deal of data must be sorted for long periods of time; information obtained by measurement must be processed and acted upon rapidly. Automation in these areas will allow basic changes to be wrought in science and the economy. The Bibliography presents 13 (mostly American and other western) articles on the problem which the author describes as "interesting examples".

Orig. art. has: 3 figures and 5 formulas. [JPRS]

SUB CODE: 14, 13 / SUBM DATE: 05Oct64 / ORIG REF: 002 / OTH REF: 009

UDC: 681.2.08

Card 1/1



[illegible], I. ...

Efficiency promoters and inventors strive for technological progress. Khim. prom. 41 no.5:374-376 My '65. (MIRA 18:6)

VAYNER, Sh.A., inzh.; VAYNER, S.A., inzh.; USOL'TSEV, V.A., inzh.; FOKIN, V.M., inzh.; SOTSKOV, N.I., inzh.; ZANDBERG, S.A., inzh.; SIGAREV, V.S., inzh.; BRONSHTEYN, L.M., inzh; YUNGER, S.V., kand. tekhn. nauk; BATYREV, A.V., inzh.; BODYAKIN, Yu.F., inzh.; RYZHKOV, N.I., inzh.; YAKHNIN, A.L., insh.; FRIDKIS, Z.I., inzh.

Furnishing the SGU gas-cutting machine with a FOS-4 scale photocopying control system. Svar. proizv. no.9:34 S '65. (MIRA 18:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut tekhnologii mashinostroyeniya (for Sh.Vayner, S.Vayner, Usol'tsev, Fokin, Sotskov). 2. Volgogradskiy zavod im. Petrova (for Zandberg, Sigarev, Bronshteyn). 3. VPTI khimnefteapparatury (for Yunger, Batyrev, Bodyakin). 4. Ural'skiy zavod tyazhelogo mashinostroyeniya imeni Sergo Ordzhonikidze (for Ryzhkov, Yakhnin, Fridkis).

GOL'DGEFTER, V.I.; SOTSKOV, S.N.

Device with many stable equilibrium states and an arbitrary transition program. Avtom. i telem. 24 no.8:1100-1105 Ag '63. (MIRA 16:8)

(Electronic computers—Circuits)
(Electric networks)

SIDENKO, V.I., inzh.; MOSTAKOV, V.I., inzh.; ZASLAVSKIY, I.N., inzh.; OL'GIN, A.Ya., inzh.; SOTSKOVA, S.D., inzh.

Durability of the structural elements of the main buildings of sintering plants. Prom.stroi. 42 no.11:35-37 N '64. (MIRA 18:8)

1. TSentral'nyy nauchno-issledovatel'skiy i proyektno-eksperimental'nyy institut promyshlennykh zdaniy i sooruzheniy i Khar'kovskiy Promstroyniiproyekt.

Z/055/63/013/001/011/013
E032/E414

AUTHOR: Šott, M.

TITLE: Matrix elements in the β-decay of Ir^{192}

PERIODICAL: Czechoslovak Journal of Physics, Section B, v.13, no.1, 1963, 75-76

TEXT: Ir^{192} is an example of a first-forbidden β-transition for which there may, in general, be six different matrix elements. Experimental data for the polarization of Ir^{192} nuclei (B.N.Samoylov, et al: ZhETF, 36 (1959), 644) may be used to show that the asymmetry of the emitted β-particles relative to the nuclear spin directions for $v/c = 0.8$ and polarization $f_1 = 0.44$ is $a = -0.080 \pm 0.016$. The ξ-approximation was used to analyze experimental data for first-forbidden transitions. The above asymmetry is a result of the superposition of the $4^- \rightarrow 3^+$ and $4^- \rightarrow 4^+$ transitions. Since for Ir^{192} there appears to be no departure of the spectrum from the allowed form, it is considered that there are no appreciable B_{ij} admixtures. In that case the transition $4^- \rightarrow 3^+$ will only involve the three matrix elements $\int \underline{r}$, $\int \underline{\alpha}$, $\int \underline{\sigma x r}$, and the relative contribution due to it will be

Card 1/2

L 26372-65 EWT(m)/EWP(t)/EWP(b) DIAAP/IJP(c) JD

ACCESSION NR: AP4042144 Z/0038/64/010/007/0243/0246

AUTHOR: Kolac, Miroslav (Kolach, M.); Nedved, Jiri; Soukup, Frantisek; Safrata, Stanislav (Shafrata, S.); Sott, Miloslav (Shott, M.); Svec, Karel (Shvets, K.)

TITLE: A device for studying the gamma radiation of oriented nuclei

SOURCE: Jaderna energie, v. 10, no. 7, 1964, 243-246

TOPIC TAGS: gamma radiation, oriented nucleus, paramagnetic crystal, adiabatic demagnetization, one stage cryostat, liquid helium bath, vacuum casing, thermal insulation, scintillation spectrometer

ABSTRACT: The article describes a device with which a temperature on the order of 0.01°K was reached for the first time in the CSR in a paramagnetic crystal by adiabatic demagnetization, starting from a temperature of 1°K to which the crystal had been cooled. A one-stage cryostat and the experimental space with the sample were immersed in a liquid helium bath with a temperature of 4.2°K. Thermal insulation was insured by a vacuum casing. Vacuum apparatus, mostly of glass, served to evacuate the various spaces of the low-temperature apparatus and to ensure the liquid helium feed. In the verification of the operation of the whole device Co^{60} nuclei were oriented, set up directly in the cooling crystal of cerium magnesium

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ACCESSION NR: AP4042144

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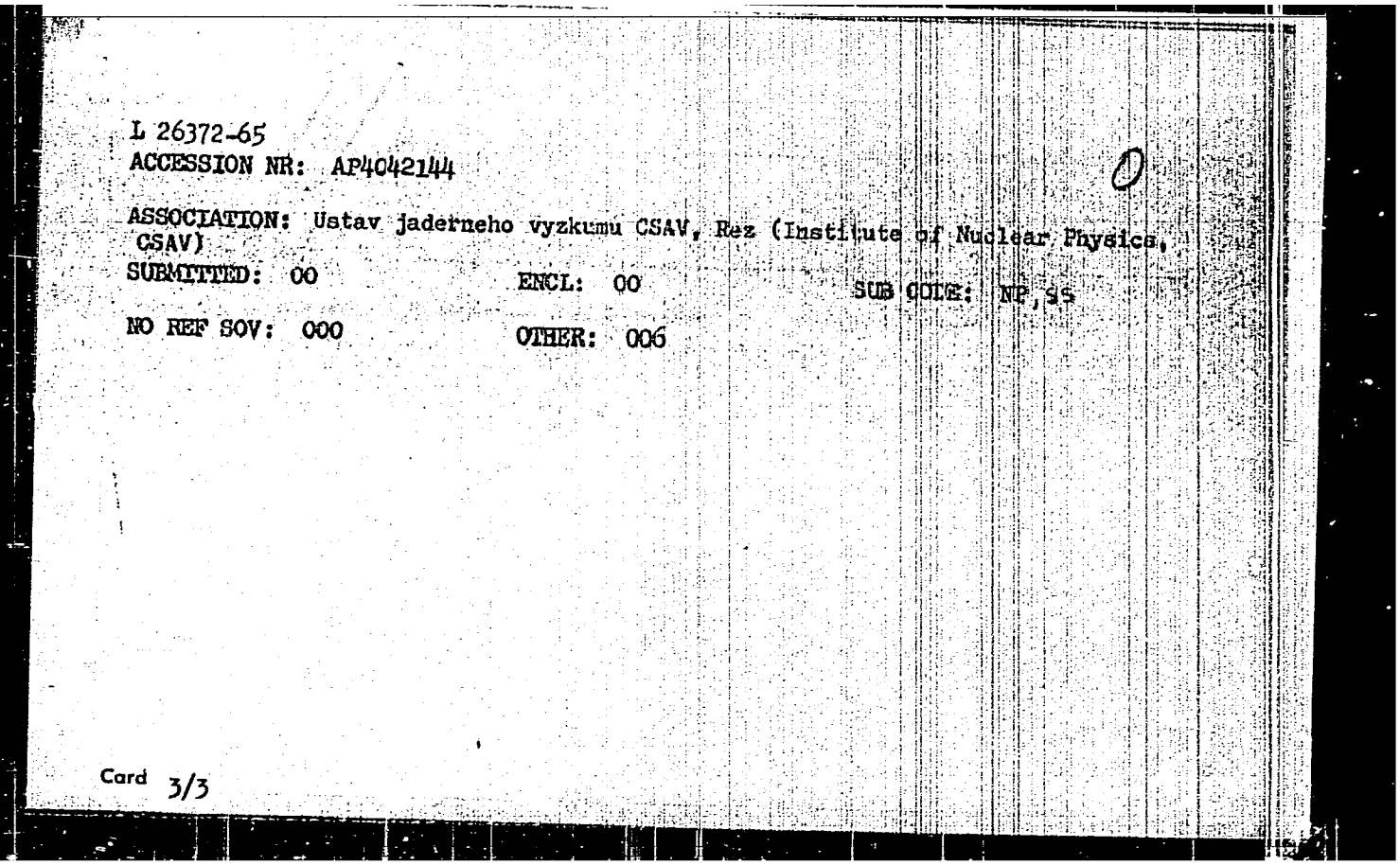
nitrate. Adiabatic demagnetization of this crystal was effected with a LAMA 80 electromagnet of a maximum field intensity of more than 20,000 gauss to zero field strength. The Co^{60} nuclei were then oriented by the Bleany method. Gamma radiation was detected by single channel scintillation spectrometers in the $\theta = 0$ and $\theta = \pi/2$ directions. The temperature of the crystal after demagnetization was measured by the ballistic method from the change of its susceptibility. The dependence of the angular distribution of gamma radiation on temperature in Co^{60} nuclei whose spins at the same temperatures had been oriented using the anisotropy of the internal field in a paramagnetic crystal was measured. The time dependence of the ballistic error and the characteristic curve $W(0)$ and $W(\pi/2)$ after demagnetization were independently measured in the experiments. Comparison of both relations shows that experiment is in good agreement with theory in the temperature interval 0.05 to 0.10°K; at $T \leq 0.03$°K the measured value is less than the theoretical value. The results obtained are in agreement with other experiments with Co^{60} in which other methods of orientation were used, and confirm the correct functioning of the device. These methods for studying oriented radioactive nuclei enrich the fund of basic research in nuclear physics. "The authors express their thanks to their coworkers Novakov, Praskov, Rodov, and Sedinov in the building and testing of the apparatus." Orig. art. has: 6 formulas and 5 figures.

Card 2/3



L 26372-65
ACCESSION NR: AP4042144

ASSOCIATION: Ustav jaderneho vyzkumu CSAV, Rez (Institute of Nuclear Physics, CSAV)

SUBMITTED: 00 ENCL: 00 SUB CODE: NP, SS

NO REF SOV: 000 OTHER: 006

Card 3/3

L 00[illegible] EWT(k)-2/T/EWP(t)/ETI IJP(c) JD/WW

ACC NR: AP6025484 SOURCE CODE: CZ/0028/65/000/004/0193/0201

AUTHOR: Sott, Miloslav (Rez)

ORG: none

TITLE: Low temperatures in science and technology

SOURCE: Pokroky matematiky, fyziky a astronomie, no. 4, 1965, 193-201

TOPIC TAGS: low temperature physics, low temperature research, specific heat, magnetic resonance, magnetic field measurement

ABSTRACT: The article discusses the advances made in basic physical research through the use of low temperatures (measurements of specific heats of solids, magnetic measurements, resonance measurements, etc.) and in the technical application of low temperatures. Orig. art. has: 4 figures and 12 formulas. [JPRS]

SUB CODE: 20 / SUBM DATE: none / ORIG REF: 004 / OTH REF: 003

Card 1/1

SOTTNER, Lubomir

Za zdravu dedinu. (For a Healthy Village. illus., bibl. Tr. from the Czech) Bratislava, Slov. ustav zdravot. osvety, 1957. 110 p. Vol. 5 of the series Kniznica druzstevnika (Collective farmer's library)

This small pamphlet is offered to the libraries of collective farms, Machine tractor stations and State farms, as well as for all farmers. It describes some basic health problems and gives farmers the opportunity to pretect their own and their village's health.

Bibliograficky katalog, CSR, Slovenske khihy, Vol.VIII. 1957. No.9. p.282.

KOTTNER, J.

Diabetes mellitus and the taste of phenylthiocarbamide. Cas. lek. cesk. 103 no.47:1303-1313 20 N 64.

1. Katedra mikrobiologie a genetiky prirodovedecke fakulty Karlovy University v Praze, vedouci doc. RNDr. J. Starka Ustredni laborator Obvodniho ustavu narodniho zdravi v Praze 5, (reditel Obvodniho ustavu narodniho zdravi MUDr. A. Bily).

SKAMENOVA, B.; SOTTNER, L.

The problem of heredity of diabetes. Cas. lek. cesk. 104 no.21: 561-566 28 My '65

1. Diabetologicka ambulance pri II. interni klinice lekarske fakulty hygienicke v Praze (prednosta: prof. dr. J. Syllaba, DrSc.) a Ustav experimentalni biologie a genetiky Ceskoslovenskej akademie ved, Praha (reditel: doc. dr. M. Hasek, DrSc.).
2. B.Skamenova's address: Praha 10, Srobarova 50.

MILUNICOVA, Atena, MUDr.; SOTTNER, Lubomir, MUDr., prom. biolog

Phenylthiocarbamide taste test in blood donors in Prague and its environs. I. Vnitrni lek. 11 no.2:139-144 F '65

1. Transfuzni stanice hl. mesta Prahy (prednosta:MUDr. Jan Mestan).

SOTTNER, Lubomir, MUDr., promovany biolog

Contribution to the heredity of diabetes mellitus and its relationship to some diseases. Vnitrni lek. 11 no.9:889-894 S '65.

1. Katedra mikrobiologie a genetiky prirodovedecke fakulty K Karlovy University v Praze (vedouci katedry doc. Dr. J. Starka) a Obvodni ustav narodniho zdravi Praha 5, ustredni laborator (reditel ustavu MUDr. A. Bily).

SOTYKA, W.

Ten years of the Carbon Electrode Plant. p. 185.
(CHEMIK, Vol. 9, no. 6, June, 1956, Warszawa, Poland)

SO: Monthly list of East European Accessions (EEAL) LC. Vol. 6, no. 12, Dec. 1957. Uncl.

SOUBA, F.

"The European Brewery Convention in Rome."

KVASNY PRUMYSL, Praha, Czechoslovakia, Vol. 5, No. 6, June 1959.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, No. 9, September 1959.

Unclassified.

SCUBA, M.

Enargite finds in the Spis-Gemer Ore Mountains. P. 188.
(Casopis Pro Mineralogii A Geologii, Vol. 2, no. 2, 1957. Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 10, October 1957. Uncl.

SOUC, J.

Spare parts, a guarnatee for timely and high-level machinery repairs. p. 452 .
Control and restoration of bearings for D-54 motors. p. 453
Crude method for reclaiming oil. p. 453.
MECHANISACE ZEMEDELSTVI. Vol. 4, No. 23, Dec. 1954

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

Z/003/63/000/007/002/003

AUTHOR Šoug, Juraj

TITLE: Explosions in the atmosphere: Sonic effects of shock waves

PERIODICAL: Křídla vlasti, no. 7, 1963, 190-192

TEXT: A popularized review of the mechanism of shock waves and sonic booms in supersonic flights, based on an article by N. A. Zaks, Docent and Candidate of Technical Sciences. [Abstracter's note: Original author's nationality, and publication data are not given.] Effects of sonic booms, by pressure intensity, are tabulated. Factors influencing sonic booms (Mach number, altitude, wind, angle of flight) are explained and graphically illustrated. 1 table and 5 graphs. 1 reference (to Zaks).

Card 1 of 1

S/194/62/000/005/140/157
D271/D308

AUTHOR: Souček, A.

TITLE: Pulse reflectometer

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika, no. 5, 1962, abstract 5-7-174 t(Sb. prací Výzkumn Ústavu spojů, 1959, Prague, 1960, 273-279)

TEXT: An apparatus is described, designed for the third TV channel, which is indispensable for operational measurements of the antenna and feeder (wave impedance of 50, 60 and 75 ohm), by the method of determination of the magnitude and point of reflection. In the pulse reflectometer a short radio frequency pulse (0.1 - 0.3 μ sec) is sent to the measured line; transmitted and reflected pulses are displayed simultaneously on the screen of a cathode ray tube. Instruction is given for the use of the apparatus in measurements of matching in antenna systems. [Abstractor's note: Complete translation].

Card 1/1

SOUCEK, A.; NOVOTNY, P.

Method for the routine examination of Corynebacterium diphtheriae. Cesk. epidem. mikrob. imun. 8 no.4:217-221 July 59

1. Laborator pro lekarskou mikrobiologii a immunologii Karlovy university v Praze.

(CORYNEBACTERIUM DIPHTHERIAE, culture)

PATOCKA, F.; SOUCEK, A.; MARA, M.

New observations on biological properties and toxinogen esis of atypical haemolytic Corynebacteria isolated from humans. J.hyg. epidem., Praha 4 no.3:307-308 '60.

1. Laboratory for Special Medical Microbiology and Immunology, Medical Faculty, Charles University, Prague.
(CORYNEBACTERIUM)
(TOXINS AND ANTITOXINS)

SCHON, E.; ZAHOROVA, L.; SOUCEK, A.

Atypical Corynebacterium in the pathogenesis of human infections.
Cesk.epidem.mikrob.imun. 9 no.2:69-77 Mr '60.

1. Katedra mikrobiologie a epidemiologie fakulty vseobecneho lekarstvi University Karlovy v Praze.
(CORYNEBACTERIUM infect.)

PATOCKA, Franticek; SOUCEK, Andrej; MARA, Milan; JEDLICKOVA, Anna; ZAHOROVA, LEOPOLDA

Contribution to the problem of so-called atypical Corynebacteria considered as human variants of Corynebacteria pyogenes. Cesk. epidem. mikrob. imun.10 no.3:184-191 '61.

1. Laborator pro specialni lekarskou mikrobiologii a imunologii lekarske fakulty KU v Praze.
(CORYNEBACTERIUM)

PATOCKA, F.; MARA, M.; SOUCEK, A.; SOUCKOVA, A.; technical assistance: SKOROVA, Miroslava; SAHULOVA, Vera

Observations on the biological properties of atypical haemolytic Corynebacteria isolated from man as compared with Cor. haemolyticum, Cor pyogenes bovis and Cor.ovis. I. In vivo investigations. J. hyg. epidem. 6 no.1:1-12 '62.

1. Department for Medical Microbiology and Immunology, Charles University, Prague.
(CORYNEBACTERIUM)

SOUCEK, A.; SOUCKOVA, A.; MARA, M.; PATOCKA, F.; technical assistance: SAHULOVA, Vera; SKVOROVA, Miroslava

Observations on the biological properties of atypical haemolytic Corynebacteria isolated from man as compared with Cor. haemolyticum, Cor. pyogenes bovis and Cor. ovis. J. hyg. epidem. 6 no.1:13-23 '62.

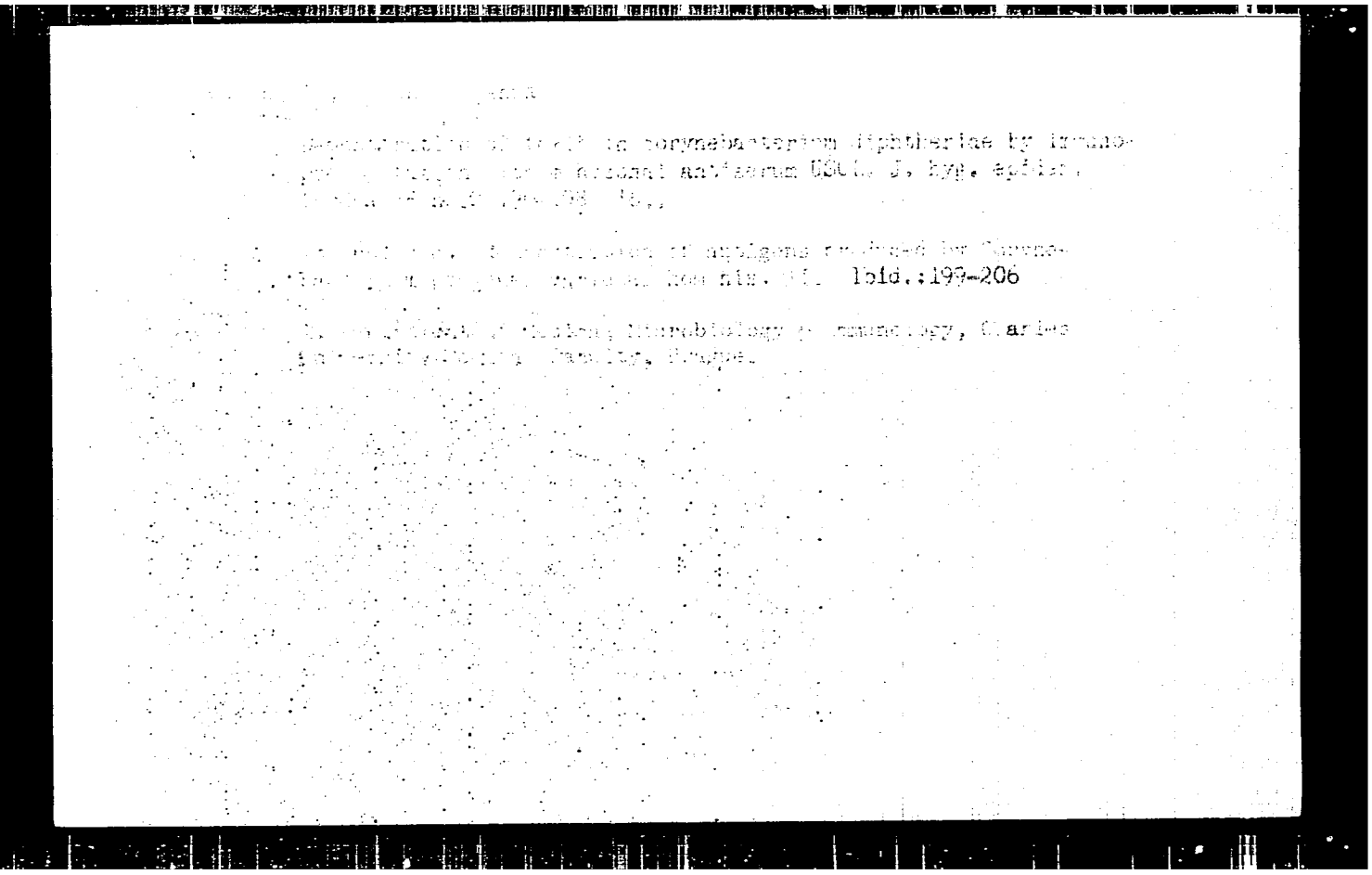
1. Department for Medical Microbiology and Immunology, Charles University, Prague.

(CORYNEBACTERIUM)

SOUCEK, A.; SOUCKOVA,A.; MARA,M.

Phospolipase and lipase in Coryne-bacterium phyogenes var. hominis. J.hyg.epidem,Praha 8 no.1:132-133 '64.

1. Laboratory for Special Medical Microbiology, Medical Faculty, Charles University, Prague.



Ibid.:199-206

SOUCEK,A.; MARA,M.; SOUCKOVA, Anna

Studies on Corynebacterium pyogenes varietas hominis. IV. Comparison of active components in Corynebacterium pyogenes varietas hominis (Corynebacterium haemoliticum) and Corynebacterium pyogenes. J. hyg. epidem. (Praha) 9 no.1:67-76 '65

1. From the Department of Medical Microbiology and Immunology, Charles University Medical Faculty, Prague.

SOUCEK, Bohumil DECEASED 1963/1

c. 1962

HYGIENE - Chem.

SOUCEK, Bohumil; OTTA, Zdenek; EBERLE, Jaroslav

Casting of aluminum and bronze models in plaster forms.
Slevarenstvi 10 no.3:100 Mr '62.

1. Metalurgicke zavody, Tynec and Vltavou.

SOUCEK, Branko, Ing. (Zagreb); HRISOHO, Aleksander, Ing. (Zagreb)

Research of magnetic cores by rapid current impulsions. Results of testing cores of domestic production. Elektr vest 27 no.9/10:313-315 S-O '59. (EEAI 9:10)

1. Institut "Ruder Boskovic", Zagreb.
(Magnetic cores)
(Yugoslavia--Magnetic memory (Calculating machines))

HRISOHO, Aleksandar, inz. (Zagreb); SOUCEK, Branko, inz. (Zagreb)

Obtainment of short pulses. Automatika 4 no.4:250-254 '63.

1. Institut "Ruder Boskovic", Zagreb.

SOUCEK, Branko, dr inz.

Amplitude analysis of impulses in frequent repetitions.
Automatika 5 no.4:288-292 '64.

1. Ruder Boskovic Institute, Zagreb, Bijenicka c. 54.

SOUCEK, F.

Projection of plants. p.6. (Technicke Noviny, Praha, Vol 2, no. 21, Nov 1954)

SO: Monthly list of East European Accessions (EEAL), LC Vol 4, No. 6., June 1955, Uncl

Soucek, J.

Improvement in the elimination of radio interference. p. 243.

Vol. 9, no. 8, Aug. 1954.
ELEKTROTECHNIK

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

SOUCEK, J.

Construction of a heart-shaped cam in spinning and twisting machines of all types.

P. 210, (Textil) Vol. 12, no. 6, June 1957, Praha, Czechoslovakia

SO: Monthly Index of East European Acessions (EEAI) Vol. 6, No. 11 November 1957

SOUCEK, J., Dr.; SVEHLA, F., Doc.

Clinical considerations on radicular diseases. Neur. & psychiat. cesk. 18 no.6:413-419 Nov 55.

1. Z neurolog. oddel. KUNZ Karlovy Vary. Primar Doc. Dr. F. Svehla.

(NERVES, SPINAL, diseases,
radicular lesions. (Cs))

SOUCEK, J.; MOTYCKA, K.; SLAVIK,K.

Activity changes of some enzyme systems interferring in folic acid metabolism in the course of mouse leukaemia of AKR-strain. Neoplasma 11 no.2:193-198 '64

1. Institute of Haematology and Blood Transfusion, Laboratory of Protein Metabolism, Prague, Czechoslovakia.

MOTYCKA, K.; SOUCEK, J.; SLAVIK, K.; JIRASEK, J.; JIRASEK, A.; Technical assistance: SMETANOVA, R.; FRANTOVA, L.; SIMONOVA, A.

The treatment of experimental mouse hemoblastosis. I. The effect of some new folic acid antimetabolites on cell transplanted leukemia in mice of the AKR strain. Neoplasma (Bratisl.) 11 no.4: 389-397 '64.

1. Institute of hematology and blood transfusion, Prague, Laboratory of protein metabolism and proteosynthesis, Charles University, Prague, I-st pathological-anatomical institute, Charles University, Pregue, Czechoslovakia.

MOTYCKA, K.; SOUCEK, J.; SLAVIK, K.; Technical Assistance: SMETANOVA, R.; FRANTOVA, L.; SIMONOVA, A.

The treatment of experimental mouse hemoblastosis. II. The effect of long-term administration of some folic acid antagonists on mice of the AKR strain. Neoplasma (Bratisl.) 11 no.4:399-408 '64.

1. Institute of hematology and blood transfusion, Prague, Laboratory of protein metabolism and proteosynthesis, Charles University, Prague, Czechoslovakia.

...C., ...; S...CH, J.

The treatment of experimental mouse hemoblastosis . Part 4.
...oplasma (Bratisl.) 12 no.5:517-524 '65.

1. Institute of Hematology and Blood Transfusion , Prague, Czechoslovakia. Submitted November 13, 1964.

L 13226-66

ACC NR: AP6006082 SOURCE CODE: CZ/0053/65/014/004/0312/0313

AUTHOR: Soucek, J.; Motycka, K. 21 B

ORG: Institute of Hematology and Blood Transfusion, Prague (Ustav hematologie a krevni transfuse)

TITLE: Results of the therapy of experimental leukemia LaH VUFB with 6-azauracil-riboside, urbasone R and actinomycin D [This paper was presented during the Twelfth Pharmacologic Days, Smolenice, 28 Jan 65.]

SOURCE: Ceskoslovenska fysiologie, v. 14, no. 4, 1965, 312-313

TOPIC TAGS: blood disease, cancer drug, mouse, antibiotic, heterocyclic base compound, organic nitrogen compound, therapeutics

ABSTRACT: In mice of the strain C57 Black with transplanted leukemia LaH treated subcutaneously with 6-azauridine, 6-methylprednisolonesemisuccinate and actinomycin D, the steroid had no effect at all. Actinomycin was most effective, prolonging survival 150% over the untreated controls. [JPRS]

SUB CODE: 06 / SUBM DATE: none

Card 1/1

L 13577-66

ACC NR: AP6006066 SOURCE CODE: CZ/0053/65/014/004/0306/0306

AUTHOR: Motycka, K.; Soucek, J.

18 B

ORG: Institute of Hematology and Blood Transfusion, Prague (Ustav hematologie a krevni transfuse)

TITLE: Therapy of experimental hemiblastosis L14AKR by preparations with definite or probable cytostatic effect [This paper was presented during the Twelfth Pharmacologic Days, Smolenice, 28 Jan 65.]

SOURCE: Ceskoslovenska fysiologie, v. 14, no. 4, 1965, 306

TOPIC TAGS: pharmacology, drug effect, blood disease, pathology

ABSTRACT: Study of the effect of 6-methylprednisolone succinate, 6-mercaptopurine, buthiopurine, 6-azauridine, dehydroepiandrosterone and actinomycin D on experimental leukemia $L^{14}AKR$. 6-azauridine increased the survival 150% of a control; actinomycin D was also very effective but it was accompanied by toxic effects, including subcutaneous abscesses and fall-out of hair.

[JPRS]

SUB CODE: 06 / SUBM DATE: none / ORIG REF: 001

Card 1/1 HW

CZECHOSLOVAKIA

SOUCEK, J.; SALANSKY, I.; Research Institute for Macromolecular Chemistry, Research Institute of Traumatology (Vyzkumny Ustav Makromolekularni Chemie, Vyzkumny Ustav Traumatologicky), Brno.

"An Electrolytic Method for the Determination of Water Vapor Emitted by the Skin."

Prague, Ceskoslovenska Fysiologie, Vol 15, No 4, Jul 66, pp 329-330

Abstract: Water contained in the analyzed gas is absorbed by a film of P_2O_5, and immediately decomposed electrolytically to hydrogen and oxygen; the intensity of the electrical current used gives an instantaneous reading of the amount of the water, when a constant volume of the analyzed gas is maintained. The instrument is sensitive enough to allow investigations of small areas of the skin (1.10^{-8} to 1.10^{-5} g of water/sec can be determined). Overall diagram of the unit is given, and technical details of the component parts presented. 1 Figure, 6 Western, 4 Czech references. (Manuscript received 3 Feb 66).

1/1

[illegible]

"Cultivating blight-resistant apricots. Supplement.", p. 9, (ZA SOCIALISTICKE ZEMEDELSTVI, Vol. 3, #3, Mar. 1953, Czechoslovakia)

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

SOUCEK, J.

"Production of sees for vegetable crops." (p. 406). ZA SOCIALISTICKE ZEMEDELSTVI (Ministerstvo zemedelskychved) Praha, Vol 4, No 8, Apr 1954

SO: East European Accessions List, Vol 3, No 8, Aug 1954.

Soucek, J.

USSR/V.GH/Cultivable Plants - General Problems. M-1

Abs Jour : Ref Zhur - Biol., No 3, 1958, 10849

Author : Soucek, J.
Inst :
Title : The Contact Photocopy -- an Important Part of the Documentation in Plant Selection.

Orig Pub : Ovocnar. a Zelinar., 1957, 5, No 4, 121-123

Abstract : No abstract.

Card 1/1

SOUCEK, J.: REZAPEK, K.

"Our experience with the hypophysectomy of rats"

Ceskoslovenska Fysiolcgie. Praha, Czechoslovakia. Vol. 8, no. 1, Jan 1959

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 7, July 59, Unclas

REZABEK, Karol; technicka spoluprace SOUCEK, J.; MALCOVA, H.

Favorable effect of chlorothiazide on diabetes insipidus in hypophysectomized rats. Cas.lek.cesk 100 no.46:1454-1456 17 N '61.

1. Vyzkumny ustav pro farmacil a biochemii, Praha, prednosta dr. ing. O. Nemecek.

(CHLOROTHIAZIDE pharmacol)
(DIABETES INSIPIDUS exper)
(HYPOPHYSECTOMY exper)

REZABEK, K.; JELINEK, V.; Technical collaboration: SOUCEK, J.; NOVA, V.; MALCOVA, H.

The effect of some drugs used in the therapy of malignant tumours on the genital cycle of the rat. Neoplasma 9 no.2:151-158 '62.

1. Research Institute for Pharmacy and Biochemistry, Prague, CSSR.

(ANTINEOPLASTIC AGENTS pharmacol)
(GENITALIA, FEMALE pharmacol)
(GONADOTROPINS physiol)
(ESTRUS pharmacol)

REZABEK, K.; SOUCEK, J.

A float arrangement for recording small changes in volume and pressure. Physiol. Bohemoslov. 11 no.6:557-563 '62.

1. Research Institute of Pharmacy a Biochemistry, Prague.
(EQUIPMENT AND SUPPLIES)

SHEJBAL, J.; SLAVIK, J.; SOUCEK, J.

Folic acid and metabolism. Part 7: Transformation of one-carbon compounds and of folic acid in germinating plants. Coll Cz chem 27 no.6:1470-1475 Je '62.

1. Department of Biochemistry and Laboratory for Protein Metabolism, Charles University, Prague (for Shejbal and Slavik). 2. Institute of Hematology and Blood Transfusion, Prague (for Soucek).

CZECHOSLOVAKIA

SOUCEK, J; MOTYCKA, K; SLAVIK, K; SOCHMAN, J.

1. Institute of Haematology and Blood Transfusion, Prague;
2. Laboratory for Protein Metabolism and Synthesis, Prague

Prague, Collection of Czechoslovak Chemical Communications, Vol 8, 1963, pp 2222-2226

"Metabolism of Folic Acid. IV. Mechanism of Biochemical Action of Some Folic Acid Antimetabolites in vivo."

REZABEK, K.; SOUCEK, J.; HONDLIK, J.

Assay of secretin in guinea-pigs. Physiol. bohemoslov. 12 no.2: 156-160 '63.

1. Research Institute of Pharmacy and Biochemistry, Prague.
(SECRETIN) (BIOASSAY) (BILE) (BIOLOGICAL ASSAY)

CZECHOSLOVAKIA

SOUCEK, J; VASATKOVA, J

Research Institute of Macromolecular Chemistry, Brno, (for both)

Prague, Collection of Czechoslovak Chemical Communications, No 7, July 1966, pp 2860-2865

"Determination of small amounts of epoxides from different infrared spectra."

SOUCEK, J.; SOCHMAN, J.; SLAVIK, K.

Activity changes of some enzyme systems interferring into the metabolism of folic acid in the livers of mice in the course of LaHVUFB leucaemia. Neoplasma 10 no.2:177-182 '63.

1. Institute of Haematology and Blood Transfusion, Laboratory of Protein Metabolism, Prague, CSSR.

(LEUKEMIA, EXPERIMENTAL) (FOLIC ACID ANTAGONISTS)
(LIVER) (METABOLISM) (DEHYDROGENASES) (TRANSFERASES)
(ALDOLASE) (OXIDOREDUCTASES)

SOUCEK, J.; MOTYCKA, K.; SLAVIK, K.; SOCHMAN, J.

Metabolism of folic acid. Pt.9. Coll Cz Chem 28 no.8:2222-2226 Ag '63.

1. Institute of Hematology and Blood Transfusion, Prague, and Laboratory for Protein Metabolism and Synthesis, Prague.

SOUCEK, J.

"Planovani letist. V Praze, 1948. 18p. (Brno. Vysoka skola technicka. Ustav stavby silnic. Drobne spisy, c. 1). (Planning airfields. illus.)."

SO: East European Accessions List, Vol 3, No 8, Aug 1954.

SOUCEK, JAROMIR.

Silniční vozidla a trasovací prvky. [Vyd. 1.] Praha, Statní pedagogické nakl., 1953. 87 p. (Učební texty vysokých skol) [Highway vehicles and elements of road engineering. 57 diagrs.]

SO: Monthly List of East European Accessions, Vol.3, Library of Congress, March 1954, Uncl.

Soucek, J.

Soucek, J. General research on traffic conditions in Prague. p. 574.

Vol. 10, no. 18, Aug. 1956
SVET MOTORU
TECHNOLOGY
Czechoslovakia

So: East European Accessions, Vol. 6, May 1957
No. 5

SCUCEK, J.

Traffic problems in Munich; notes from a study trip. p.12.
(Silnice, Vol. 6, No. 4, April 1957, Praha, Czechoslovakia)

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

SOUCEK, J.

Highways and turnpikes in Bavaria, p.11.
(Silnice, Vol. 6, No. 5, May 1957, Praha, Czechoslovakia)

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

SOUCEK, J.

"Construction of roadways with respect to traffic capacity, maximum weight, and protection against frost."

p. 2 (Silnice) Vol. 6, no. 10, Oct. 1957.
Prague, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4, April 1958

SOUCEK, J.

"Traffic engineering, a new branch of highway engineering."

p. 13 (Silnice) Vol. 6, no. 12, Dec. 1957.
Prague, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4, April 1958

SOUCEK J.

SOUCHEK, YAROMIR [Soucek, Jaromir], prof.

Constructing pavements and roadbeds in Czechoslovakia. Avt.dor. 21 no.10:23-25 O '58. (MIRA 11:11)
(Czechoslovakia--Road construction)

MACHACEK, Jindrich, inz.; SOUCEK, Jaroslav, inz.; BINOVEC, Vladimir, inz.

Geodetic operations designing new and reconstructed railroads. Geod kart obzor 9 no.12:327-332 D'63.

1. Statni ustav dopravniho projektovani, Praha.

SOUCEK, Jaroslav

Mathematic formulation of doses in chemical clarification of water. Sbor pal vod VSChT 4 no.1:165-171 '60. (KEAI 10:9)

1. Katedra chemicke technologie vody, Vysoka skola chemicko technologicka, Praha.

(Water)

SOUCEK, J.

Distr: 4E2c(m)

MJC(JD)

Reaction of ruthenium(III) and ruthenium(IV) chlorides with sodium azide. V. Vřeštál, F. Králík and J. Souček (Vojenská akad. A. Zápotockého, Brno, Czech.). *Collection Czechoslov. Chem. Communs.* 25, 2155–60(1960)(in German).—Ru(III) and Ru(IV) salts react in HCl solns. with azide to form characteristically colored complex compds. Ru(IV) chloride forms unstable red solns. with NaN_3; this reaction is followed by the redn. of Ru to the trivalent form. The Ru(III) salts form a complex with NaN_3 with a ratio $Ru:N_3^- = 2$ and a sharp absorption max. at 290 mμ. E. Erdős

PRIBYL, M.; SOUCEK, J.

Determining small quantity of acetylene and methylacetylene in gases. Coll Cz Chem 26 no.7:1793-1798 Jl '61.

1. Militar-Akademie "A. Zapotocky", Brno.

(Acetylene)

SOUCEK, J.; VRESTAL, J.

Halogen compounds of ruthenium with pyridine and its homologues. Part 2: Dihalogenruthenium (II) compounds. Coll Cz Chem 26 no.8: 1931-1940 '61.

1. Militarakademie "A. Zapotocky", Brno.

SOUCEK, Jaroslav

Behavior of some alcohols and acids in electrolytic determination of moisture. Chem prum 12 no.2:78-81 F '62.

SOUCEK, J.; PRIBYL, M.; NOVAK, K.

Coulometric determination of water in liquid carbohydrates. Coll Cz Chem 27 no.2:400-405 F '62.

1. Forschungsinstitut fur Makromolekularchemie, Brno.

SOUCEK, J

Prague, Collection of Czechoslovak Chemical Communications, Vol 27, No 5, April 1962 (continued)

16. "The Obtaining of Sodium Formate with Electrochemical Methods," J. SOUCEK, Slovak Technological Institute, Bratislava; pp 914-919.

19. "The Theory of the Boundary Layer of a Finite Absorbent Crystal," E. ELIAS, Institute of Physical Chemistry at the Czechoslovak Academy of Sciences, Prague; pp 920-927.

20. "A Contribution to the Problem of the Kinetics of Absorption on a Semiconductor," E. ELIAS, Institute of Physical Chemistry at the Czechoslovak Academy of Sciences; pp 928-930.

21. "The Flammability of Graphite. Part II. A Contribution to the Theory of the Formation of Graphite in Electrolytic Solutions," J. SPURNY and D. DOBIAS, Institute of Geochemistry and Mineral Raw Materials at the Czechoslovak Academy of Sciences, Prague; pp 931-937.

22. "The Sorption of Radioisotopes on Sediments. Part VI. The Ferric Hydroxide - Strontium Solution System, and the General Rules of Sorption by Ferric Hydroxide," Z. KOLARIK, Nuclear Research Institute of the Czechoslovak Academy of Sciences, Rez near Prague; pp 938-950.

23. "The Sorption of Radioisotopes on Sediments. Part VII. Sorption of Strontium by Manganous Hydroxide," Z. KOLARIK, Nuclear Research Institute of the Czechoslovak Academy of Sciences, Rez near Prague; pp 951-959.

24. "Halogen Complexes of Ruthenium with Pyridin and Its Methyl Homologues. Part III. Pyridinechlororuthenium and Trichlororuthenium Complexes," J. SOUCEK, Research Institute for Macromolecular Chemistry, Brno; pp 960-968.

25. "Automatic Paper Electrophoresis," J. KNOBLOVA, M. FRONKOVA and J. SEDA, Development Workshop and Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Sciences, Prague; pp 969-973 (English article).

26. "Organo-Silicon Compounds. Part XXIX. The Kinetics of the Direct Synthesis of Silicon Methylchlorides," J. JONAS, M. KRAUS and V. BAZANT, Institute for the Theoretical Basis of Chemical Engineering at the Czechoslovak Academy of Sciences, Prague; pp 974-976.

27. "On the Properties of Sulphide Catalysts. Part XIV. The Extraction of Acids," S. ZAUDA and O. WEISSER of the Institute of Synthetic Fuels and Petroleum at the Technical School of Chemistry in Prague

— 3/6 —

S/081/63/000/004/009/051
B193/B180

AUTHOR: Souček, J.

TITLE: Coulometric micro-determination of hydrogen in compounds

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 4, 1963, 154, abstract 4G150 (Collect. Czechosl. Communs, v. 27, no. 4, 1962, 1024 - 1028 [Ger.; summary in Russ.])

TEXT: A coulometric method of determining H in organic compounds has been developed, based on combustion of the hydrogen, absorption of the resulting H_2O by a sorbent followed by its electrolytic decomposition (RZhKhim, 1960, no. 13, 51711) with determination of its amount from the electricity consumed. The H content (in %) in the sample is calculated from the formula: $X = 1.045 \cdot 10^{-3} m^{-1} \int_{t_o}^{t} [i(t) - i_o] dt$, where i is the current in ma, t is the time in sec, m is the weight of the sample in g, i_o is the residual current due to traces of moisture in the O_2 and current leakage through the insulation. The design of the coulometric measuring element and the H_2O vapor

Card 1/2

Coulometric micro-determination of...

absorber have been described earlier (J. Souček, Collect. Czechosl. Commun.). The combustion was carried out in an O_2 flow, previously dried by passing through an absorber containing silicagel and P_2O_5. The combustion gases were passed into the coulometric element, and thence through a tube containing P_2O_5 for protection from atmospheric moisture, into the atmosphere, or into a CO_2 absorber. The amount of electricity consumed in electrolysing the water was found on an integrating meter (circuit given) from the current v. time curve. With this method the H content can be determined with an absolute error of 0.09%. [Abstracter's note: Complete translation.]

SOUCEK, Jaroslav, dr.

Planning according to the characteristics and conditions of branches. Podn org 17 no.9:417-418 S'63

1. Ministerstvo potravinarskeho prumyslu.

SOUCEK, Jaroslav; SOUCKOVA, Jirina

Spectrophotometric determination of carbonyl impurities in vinyl acetate and acetic acid. Chem prum 14 no.8:430-431 Ag '64.

1. Research Institute of Macromolecular Chemistry, Brno.

SOUCEK, Jaroslav

Purification of mercury and the control of the purification.
Chem listy 58 no.10:1203-1254 O '64.

1. Research Institute of Water Resources Management, Prague.