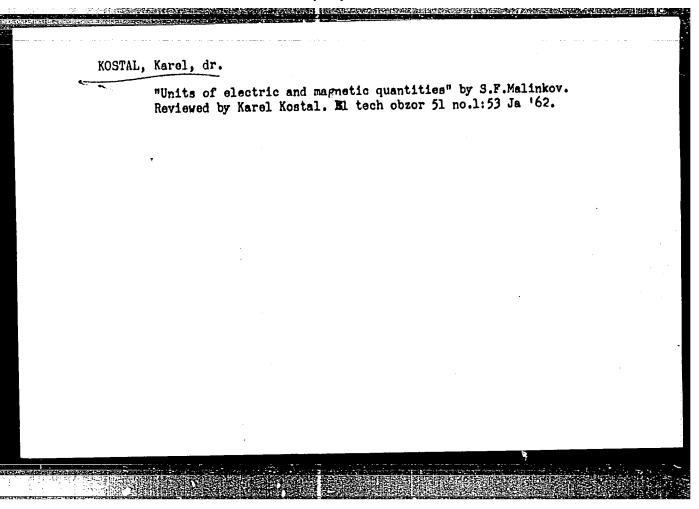
KOSTAL, Karel, inz. dr.

"Encyclopedia of measurement, control, and automation."
Reviewed by Karel Kostal. Automatizace 7 no. 4: Supplement:
Technicka literatura insert Ap '64.



Kollan, L.

Kostal, K.

Method for fast harvesting of crops without looses. p. 226.

Vol. 5, no. 12, June 1955 MECHANISACE ZEMEDILSTVI

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

"IN Memory Of The Academician D. D. Grekov." p. 1.57. (Za Socialistiche Zemedistvi. Vol. 3, No. 12, Dec. 1953, Praha.)

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

SENDERZON, B.M.: KOSTANANOV. G.M.

Tectonic elements and age relations of faults in the Kusnetsk Basin. Trudy Lab.geol.ugl.no.6:526-536 '56. (MLRA 10:2)

1. Trest *Kusbassuglegeologiya.* (Kusnetsk Basin--Geology, Structural)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825210005-8"

KOSTAMANOV, G.M.

Errors in determining the thickness of a coal bed by means of boreholes. Rasved.i okh.nedr. 22 no.8:30-33 Ag '56. (MLRA 9:11)

1. Trest Kusbassuglegeologiya. (Coal geology) (Boring)

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825210005-8 TENERAL PROPERTY OF THE PROPER

KOSTAMANOV, G.M.

Butsik, Yu.V.

132-12-11/12

AUTHOR:

TITLE:

Concerning G. M. Kostamanov Article "The Errors in Determin-

ing the Thickness of Coal Bed in a Drill Hole" (O stat'ye G.M. Kostamanova "O pogreshnosti pri opredelenii

moshchnosti plasta uglya po skvazhine")

PERIODICAL:

Razvedka i okhrana nedr, 1957, # 12, 'p 60 (USSR)

ABSTRACT:

The author questions the correctness of the formula proposed by G.M. Kostamanov in the periodical "Razvedka i okhrana nedr", # 8, 1956. The author points out that Kostamanov did not take the coefficient k into consideration, without which the proposed correction of the magnitude of the coal layer according to the

axis of the drill hole can not be carried out.

The article contains one diagram.

ASSOCIATION: Voroshilovgrad Coal-Geology Trust (Trest Voroshilovgraduglegeologiya)

AVAILABLE:

Library of Congress

Card 1/1

CIA-RDP86-00513R000825210005-8" **APPROVED FOR RELEASE: 06/14/2000**

KOSTAN, G.

"Soils of the southern portion of the Ryazantsevskiy Rayon, Yaroslavl' Oblast, and their economic characteristics." Moscow Order of Lenin Agricultural Academy imeni K.A. Timiryazev. Moscow, 1956.
(Dissertation for the Degree of Dandidate in Agricultural Science.)

So: Knizhnaya Letopis', No. 18, 1956

Source: Mathematical Reviews,

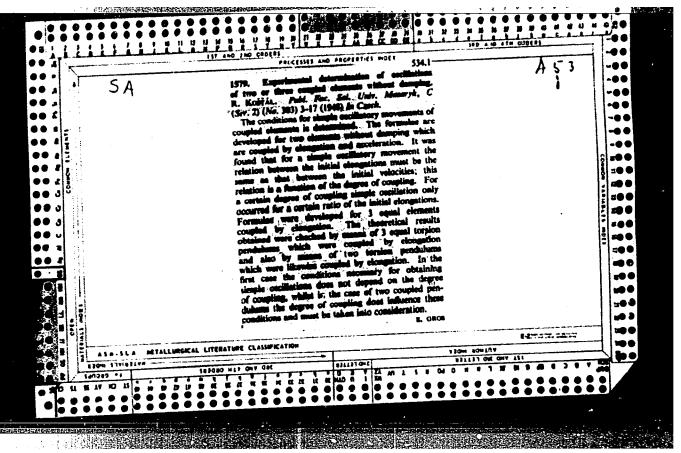
Kostel, R. Détermination des fréquences et des amplitudes des oscillations des éléments couplés non amortis. Publ. Fac. Sci. Univ. Masaryk no 300, 25 pp. (1948) (Crech. French summary)

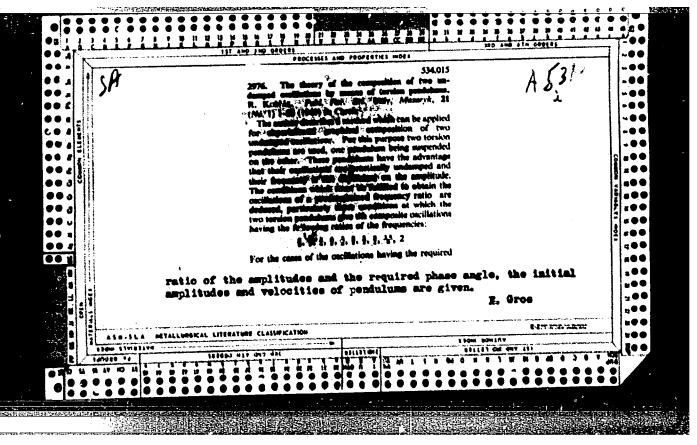
The author starts with a oscillators, the free motion of each of them being governed by an ordinary linear differential equation of the second order with constant coefficients. He then introduces into the system coupling of the most general type where the coupling terms may involve the displacements r., the velocities r. and the accelerations r. of the n particles (r-1, ..., n). The system of differential equations governing the motion can be written in the Lagrangean form

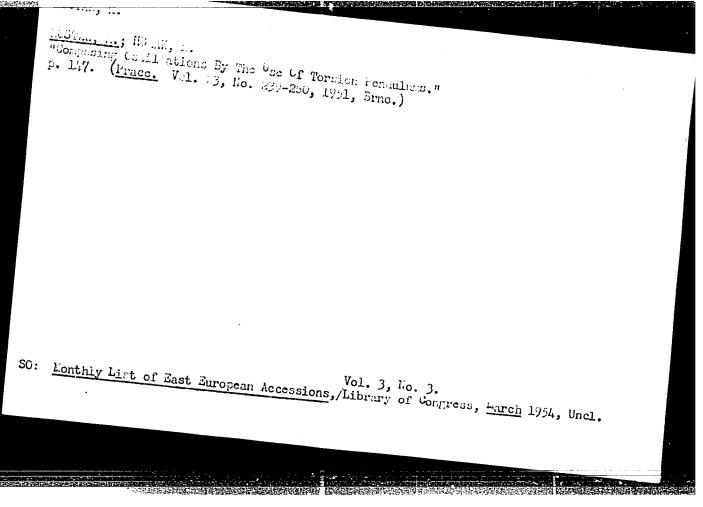
$$\frac{d}{dt}\frac{\partial T}{\partial \dot{x}_{t}} - \frac{\partial (T - V)}{\partial x'} + \frac{\partial F}{\partial \dot{x}'} = 0.$$

where T is a quadratic form in the \dot{z}_{τ} plus a bilinear form in the x, and t., V is a quadratic form in the x, and F is a quadratic form in the z. He investigates the determinantal equation for the characteristic frequencies in particular when F=0, and specialises his result when each element is coupled with its next neighbours only. More special results are obtained for two oscillators with acceleration coupling, and for a identical oscillators when only next neighbours are coupled, and the coupling depends on displacements.

A. Erdélyi (Pasadena, Calif)
Vol No. 3







KOSTAL, R.

"Functions of a dispatcher in electric power distribution and the organization of his duties." Energetika, Praha, Vol. 4, No. 7, July 1954, p. 303.

SO: Eastern European Accessions List, Vol. 3, No. 11, Nov. 1954, L.C.

KOSTAL, Rostislav

Elektrina. (Electricity; a university textbook. 1st ed.) For the students of the Faculty of Architecture and Building. Prague, SNTL, 1957. 134 p.

Bibliograficky katalog, CSR, Ceske knihy, No. 33. 24 Sept 57. p. 710.

KOST	AL,	R

Properties of Motion Composed of Two Nondamped Oscillations in the Same Direction With Equal Amplitudes

Košt'ál, Rostislav. Les propriétés du mouvement composé de deux oscillations non amorties de la même direction et avec des amplitudes égales. Práce Brn. Českoslov. Akad. Věd 29 (1957), 277–301. (Czech. Russian and French summaries)

05

KOSTAL, R.

"Properties of a movement composed of two parallel undamped oscillations with equal amplitudes."

p. 277 (Prace) Vol. 69, no. 6, 1957 Prague, Czechoslovakia

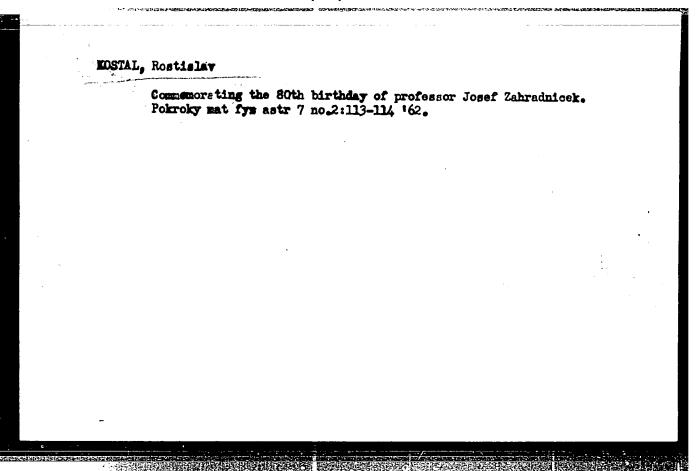
SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4, April 1958

KOSTAL, R.

"Gravity, mass of inertia, and force."

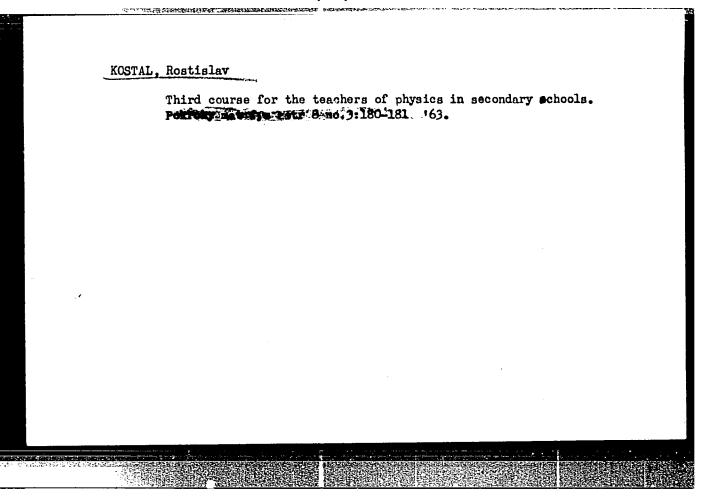
p. 302 (Prace) Vol. 69, no. 6, 1957 Prague, Czechoslovakia

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



KOSTAL, Rostislav; HOREJS, Jiri; VEJSADA, Frantisck; LEPIL, Oldrich; PECINA, Vaclav; LAITOCH, Miroslav; VESELY, Frantisck; KIEIN, Tomas

The activities of the Association of Czechoslovak Mathematicians and Physicists. Pokroky mat fyz astr 7 no.4:252-258



KOSTAL, Rudolf; SCHMIDT, Erik

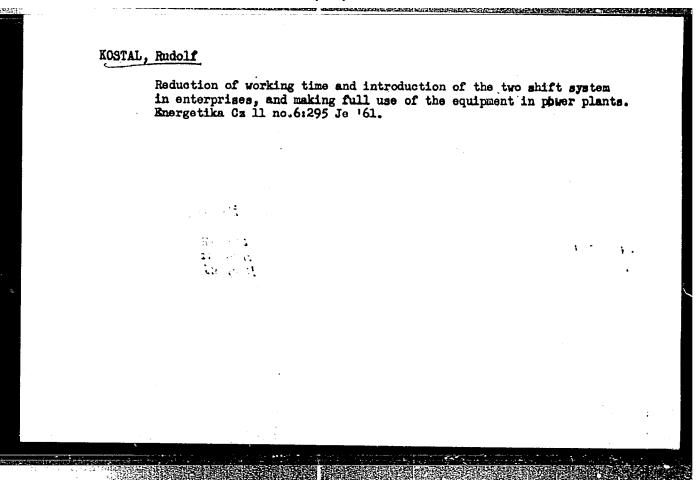
Program of measures taken by the Central Administration of Power Engineering for increasing the economical use of electric power in the national economy. Energetika Cz 14 no.11:540-542,543 N '64.

1. Central Administration of Power Engineering, Prague.

KOSTAL, Rudolf

National results of the control of electric power consumption, and precautions for the winter season 1962/1963. Energetika Cz 12 no.10:535-538 0 162.

1. CED, Praha.



L 16603-65 EWP(j)/EWP(t)/EWP(b) Pc-4 JD/RM

ACCESSION NR: AP4047115 Z/0034/64/000/010/0754/0754

AUTHOR: Kostal, V. (Engineer): Cempa, S. (Engineer): Semoda, J. (Engineer)

TITLE: Continuous-casting device for metals and thermosetting plastics. No. 136-61

SOURCE: Hutnicke listy, no. 10, 1964, 754

TOPIC TAGS: continuous casting, metal casting, plastic casting, tube casting

ABSTRACT: This Czechoslovak patent introduces a method of continuously casting tubular billets, according to which the billet is lifted from the mold at such a rate that the still-liquid central portion of the billet remains in the mold, leaving the tube surface smooth and shiny.

ASSOCIATION: none

Card 1/2

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물리에 되고 한민리에 발표되는 경기를 받는다. 얼굴한 사람들 목표 기를 보고 말로 들었다.	
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ACCESSION NR: AP4018064

2/0034/64/000/003/0227/0227

AUTHOR: Kostal, V. (Engineer); Cempa, S. (Engineer)

TITLE: Method of electrolytic refining of impure raw antimony

SOURCE: Hutnicke listy, no. 3, 1964, 227

TOPIC TAGS: electrolytic antimony refining, copper, lead, nickel, cobalt, precious metal, fluoridized electrolyte, tissue diaphram, electropositive metal, anti-corrosion cathode

ABSTRACT: The invention concerns the refinement of impure raw antimony containing 0.5 to 5% copper, 2 to 20% lead, a maximum of 0.5% nickel and cobalt, 0.5 to 10% iron, as well as precious metals and platinum metals, into antimony of high purity from fluoridized electrolyte. The electrolytic process is conducted in electrolyzers with separate electrode spaces by means of a tissue diaphragm, in a closed cycle of refinement of the electrolyte from the more electropositive metals than antimony by cementing with powdered antimony, which is maintained in suspension or in the eddy layer. Anti-corrosion acid-resistant cathodes are used.

Card	1/41	
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L 34944-66 EWP(t)/ETI TJP(c) JD/JG ACC NR: SOURCE CODE: CZ/0057/65/000/012/0538/0540 AP6026606 AUTHOR: Kostal, Vaclav (Engineer); Compa, Stefan (Engineer) B ORG: ZSNP, Ziar nad Hronom TITLE: Recovery of precious metals from domestic antimony concentrates SOURCE: Hutnik, no. 12, 1965, 538-540 TOPIC TAGS: antimony compound, gold, silver, metal extracting ABSTRACT: The concentrate containing 3 grams of gold and 26 grams of silver per ton was treated by oxidizing roasting, reduction melting, and electrolytic refining; anode sludges containing 430 to 485 grams of gold and 3474 to 4435 grams of silver per ton were obtained. The recovery of Au was 72-76%, of Ag 64.5%; sludges offer an excellent raw material for metal recovery. antimony concentrates were mined at the following locations in Slovakia: Poproc, Pesinok, Dubrava, Cucma. Orig. art. has: 3 tables. [JPRS: 34,519] SUB CODE: 11, 07 / SUBM DATE: none / ORIG REF: 005 / SOV REF: 001 OTH REF: 002

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825210005-8"

L 38597-66 T/EWP(t)/ETI IJP(c) DS/JD ACC NR: AP6027704 SOURCE CODE: CZ/0034/66/000/001/0042/0047 AUTHOR: Kostal, Vaclav (Engineer); Compa, Stofan (Engineer) 0 ORG: SNP Factory, Ziar nad Hronom (Zavody SNP) TITIE: Production of pure antimony from domostic raterials contaminated with copper SOURCE: Hutnicko listy, no. 1, 1966, 42-47 TOPIC TAGS: motal extracting, antimony, copper containing alloy, electrolytic refining, motallurgic process ABSTRACT: There are 3 ways in which the copper content may be reduced. A pyrometallurgical process of molton antimony using trivalent antimony sulphide and sulfur at 800 to 1000°C; leaching of antimony concentrates by a solution of NaCN in an alkaline medium; electrolytic refining in acid electrolytes of the sulfate-hydrogen fluoride type. This last process gave good results in experimental application. The antimony product contained 0.01-0.03% Cu, 0.001-0.005%Fe, 0.002% Pb, 0.001% S, traces of Ni and Zn. The raw antimony used for the electrodes had 79-86% Sb, 1-4.6% Cu, 1.2-5% Pb, 5% Fe. Orig. art. has: 2 figures and 3 tables. [JPRS: 34,519] SUB CODE: 11 / SUBM DATE: none / ORIG REF: 008 / SOV REF: 003 OTH REF: Card 1/1 UDC: 669.75

SIMEK, Antonin; KOSTAL, Zd., inz.

Experience with pre-emergent herbicides in maize. Agrochem 2 no.2: 36-42 162.

1. Oddeleni karanteny a ochrany rostlin, Ustredni kontrolni a zkusebni ustav zemedelsky, Praha.

JANDA, Lubor, doc., inz., CSc.; KOSTALEK, Bohuslav, inz.

Example of a conrete skeleton factory structure; example of a storied frame construction with mushroom floors. Poz stavby 11 no.7:373-376 163.

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ROSTALIK, ..

"Fighting erosion and improvement of the fertility of the eroded soils of Ukraine." Reviewed by J. Kostalik. Geogr cas SAV 16 no.1:101-103 *64

L 31787-66 ACC NR: AP6021648 SOURCE CODE: CZ/0084/65/000/004/0301/0318 AUTHOR: Kostalik, Jon 30 ORG: none B TITIE: Contribution to the study of soil erosion in the land-registry territory of Bojnicky and Dvorniky SOURCE: Geograficky casopis, no. 4, 1965, 301-318 TOPIC TAGS: soil, geographic survey, cartography, soil behavior ABSTRACT: On the basis of an analysis of the physico-geographical conditions of the western part of the Nitrianska hill-country, the article presents the results gained by studying the manifestations of surface and gully erosion and a cartographical representation. The soil erosion was investigated both quantitatively and qualitatively, using the results of laboratory analyses. Gully erosion was studied historically and geographically and evaluated on the basis of a detailed study of the eroded areas. Orig. art. has: 13 figures and 4 tables. Based on author's Eng. abst. JPRS SUB CODE: 08 / SUBM DATE: none / ORIG REF: 022 / SOV REF: 022 ORIG REF: 019 Card 1/1

GRINBERG, A.A.; KCSTAL'SKIY, A.A.; RYVKIN, S.M.

Excitation of ultrasonic vibration in germanium by current pulses.

(Thermoacoustic vibrations). Zhur. tekh. flz. 35 no.2:376-380 F

'65.

(MIRA 18:4)

SEDLAK, K.; KOSTAN, JOSEF

Socialist work brigades. Elektrotechnik 17 no.9:272 S 162.

1. Ceskomoravska-Kolben-Danek Praha, zavod Slevarny II (for Kostan).

CONTROL OF THE PROPERTY OF THE

MASLOVSKIY, Yevgeniy Aleksandrovich; ABRAMOV, Sergey Kuz'mich; KOSTAMAROV, Vadim Mikhaylovich, nauchn. red.; DOLGOVA, K.N., red.

[Deep drainage; practices in 25 years operation of vertical drainage with siphon drains] Glubokii drenazh; opyt 25-letnei ekspluatatsii vertikal nogo drenazha s sifonnym vodootvodom. Moskva, Stroiizdat, 1964. 129 p. (MIRA 18:1)

KOSTANASLUILI, N. I.

56-6-43/47

AUTHORS:

Varsimashvili, T. V. , Kostanashvili, N. I.

TITLE:

The Transition Effect of the "Stars" in a Lead Absorber (Perekhodnyy effekt "zvezd" v svintsovom poglotitele)

PERIODICAL:

Zhurnal Eksperimental'noy i Teoreticheskoy Fiziki, 1957, Vol. 33, Nr 6 (12), pp. 1530 - 1531 (USSR)

ABSTRACT:

The present paper contains the results of a controlling experiment carried out for the purpose of observing the transition effect of the "stars" under a lead absorber by means of photographic emulsions. The plane lead absorbers were arranged one on top of the other. Each lead layer had a dimension of 40 x 60 cm². The photographic emulsions were located separately between the lead absorbers. Exposure took place in an altitude of 3100 m above (sea level). The results obtained are shown in form of a diagram, according to the curve of which the maximum of the transition effect amounts to 30 %. This transition effect is only weak on the peaks of mountains and amounts, according to data obtained from various authors, only to 15 - 30 %. Experimental results are noticeably influenced by the nature of the process and by the quality of evaluation. The authors evaluated one and the same volume of the photo emulsion three

Card 1/2

APPROVED FOR RELEASE. 06/14/2000 CIA-RDP86-00513R00082521

21(8) SOY/56-36-4-6/70

AUTHORS: Kostanashvili, N. I., Shakhulashvili, O. A.

Generation of "Strange" Particles in the Interaction of TITLE:

Protons With Energies of 9 Bev With Photoemulsion Nuclei (Generatsiya "strannykh" chastits pri vzaimodeystvii protonov

s energiyey 9 BeV s yadrami fotoemul'sii)

PERIODICAL: Zhurnal eksperimental noy i teoreticheskoy fiziki, 1959,

Vol 36, Nr 4, pp 1006-1011 (USSR)

ABSTRACT: The first of the two authors was transferred to the OIYaI by

Tbilisskiy gosudarstvennyy universitet (Tbilisi State University),

and the second by the Institut fiziki AN Gruzinskoy SSR

(Physics Institute, AS Gruzinskaya SSR). They report on investigations carried out by them at the Laboratoriya vysokikh energiy Ob"yedinennogo instituta yadernykh issledovaniy (High-energy Laboratory of the United Institute of Nuclear Research) concerning the dependence of the frequency of the generation of

strange particles on the energy of primary particles. The emulsion chamber consisting of 100 layers of the emulsion BR-450,

was subjected to the action of a 9 Bev proton beam on the

Card 1/4 synchrotron of the OIYaI. The chamber had a volume of

of 9 Bev With Photoemulsion Nuclei

Generation of "Strange" Particles in the Interaction of Protons With Energies

SOV/56-36-4-6/70

(10x10x4.5)cm2. A short description is given in the introduction of the experimental method and of experimental conditions. The following recordings were made by the authors: 670 Total number of tracing rays Rays without visible effects in stopping 494 Strange particles 6 π[±]-mesons 19 Number of secondary interactions 53 Number of rays extending beyond the chamber 94 For the ratio $N_{\Sigma,K}/N_{\pi^{\pm}}$, $\approx 1/3$ was found, whereas in reference 3 the value $\approx 1/10$ was obtained. Whereas for the star production cross section of 9 Bev protons on NIKFI emulsion nuclei (Refs 4,5) the value $\sim\!\!460$ mb was found, the authors measured a cross section of $c_{\Sigma,K} \approx 20$ mb for the production of slow strange particles. Further details concerning these investigations are given by two tables. Table 1 contains data concerning a number of heavy mesons observed (14 K^+ -, two τ^+ - and one K^- -particle), and table 2 contains data on observed primary hyperons and

Card 2/4

SOV/56-36-4-6/70 Generation of "Strange" Particles in the Interaction of Protons With Energies of 9 Bev With Photoemulsion Nuclei

> secondary charged pions. The data show that the majority of the strange particles flies off into the front half-space, but all pions flying off as a result of Z-decay do so in the backward direction (in the c.m.s.). For all 2-hyperons originating from a reaction of the kind (1): $P + N \rightarrow 2 + K + N$ the kinetic energies and the departure angles were measured (diagram in figure 2). For hyperon production two possibilities offer themselves: a) by any secondary particle, e.g. a pion, which enters into interaction with the nucleons of the parental nucleus, and b) in reactions of the kind (1). Actually, both possibilities are realized; Z-K+ pair production takes place according to the scheme $\pi + N \rightarrow \Sigma + K$ (2). For reaction (2) figure 3 shows the analogous diagram as figure 2. Figure 4 shows the diagram for the Λ° -particles from reactions of the type P + N \Rightarrow Λ° + K + N. The Λ° -particles flew off at such large angles as 133 and 152°. The authors finally thank M. I. Podgoretskiy for supervising work, V. I. Veksler and M. Ya. Danysh for taking part in discussions, and they further thank Z. P. Golovins, T. A. Zhuravlevs, A. M. Kucher T. N. Mikheyeva and N. A. Protsenko for assisting

Card 3/4

sov/56-36-4-6/70

Generation of "Strange" Particles in the Interaction of Protons With Energies of 9 Bev With Photoemulsion Nuclei

in the work of measuring and surveying as well as in evaluating

results. There are 4 figures, 2 tables, and 7 references,

3 of which are Soviet.

Ob"yedinennyy institut yadernykh issledovaniy (United Institute ASSOCIATION:

for Nuclear Research)

September 20, 1958 SUBMITTED:

Card 4/4

S/056/60/039/005/011/051 B029/B077

24.6900 AUTHORS:

Dzhanelidze, L. P., Kopylova, D. K., Korolevich, Yu. B., Kostanashvili, N. I., Mandritskaya, K. V., Petukhova, N. I.

(Deceased), Podgoretskiy, M. I., Tuvtendorzh, D.,

Shakhulashvili, O. A., Chzhen Pu-in

TITLE:

Formation of Charged Hyperons During Interactions of 9-Bev

Protons With Nuclei of a Photoemulsion

PERIODICAL:

Zhurnal eksperimental noy i teoreticheskoy fiziki, 1960,

Vol. 39, No. 5(11), pp. 1237-1241

TEXT: The authors investigated the angular distribution of positive and negative pions formed in decays of Σ hyperons formed in their turn by the interaction of 9-Bev protons with photoemulsion nuclei. The authors irradiated two emulsion chambers: (10 . 10 . 6)cm³ (chamber 1), and (10 . 15 . 4)cm³ (chamber 2). These chambers consist of ΕΡ-400 H K Φ M (BR-400 NIKFI)-type emulsion layers. 9-Bev protons of the proton-synchrotron of the Laboratoriya vysokikh energiy OIYaI (High-energy Laboratory of the Joint Institute of Nuclear Research) were used to bombard the

Card 1/4

Formation of Charged Hyperons During Interactions S/056/60/039/005/011/051 of 9-Bev Protons With Nuclei of a Photoemulsion B029/B077

emulsions. Angular distribution of the decay products of ∑^t hyperons:

V. G. Solov'yev (Ref. 2) has already emphasized the importance of investigating the longitudinal asymmetry found in the angular distribution for pions formed during a hyperon decay. Fig. 1 shows the angular distribution of pions relative to its direction of motion in the rest system of the hyperon; the authors paid special attention to the calculation of these values. If the angular distribution is approximated by

1 + a cos θ^* , then the coefficient of asymmetry has the form a $\equiv \sqrt{P}_{\Sigma}$ $= \frac{3}{N} \sum_{i=1}^{N} \cos \theta_i^* \pm \left(\frac{3-a^2}{N}\right)^{1/2} = 0.03\pm0.2$; \ll denotes the coefficient of asymmetry for total hyperon polarization, P_{Σ} the vector component of the mean Σ hyperon polarization in the direction of motion, θ_i^* the angle between the directions of emission of hyperon and pion in the rest system of the hyperon, and N the number of hyperons observed. The following holds for the angular distribution of pions relative to the production level of Σ hyperons: b = $2(N_{\text{forward}} - N_{\text{backward}})/(N_{\text{forward}} + N_{\text{backward}}) = 0.36\pm0.22$.

Formation of Charged Hyperons During Interactions S/056/60/039/005/011/051 of 9-Bev Protons With Nuclei of a Photoemulsion B029/B077

Fig. 2 shows the angular distribution of \sum^{\pm} hyperons with necessary corrections. The ratio of the number of positive and negative hyperons is $N_{\Sigma^+}/N_{\Sigma^-} = 3.2 \pm 0.1$. All black and gray tracks were investigated in 76 stars which displayed decaying stars according to the mode $\sum^{\pm} \pi^{\pm} + n$. Four pair productions of a \sum^{\pm} hyperon and a K^+ meson, two pair productions of K^+ and K^- mesons, and a production of two hyperons in a single star were found. A star of the type (17 + 7p) had two gray particles which decay into a relativistic particle during motion. This particle might have been a hyperon. The annihilation of one antiproton was observed in the extension of the selected rays. The authors thank E.L. Andronikashvili and V. I. Veksler for their interest, and the operators of the synchrotron and all laboratory assistants for taking part in the evaluation of the photoemulsions. There are 4 figures and 6 Soviet references.

ASSOCIATION:

Ob"yedinennyy institut yadernykh issledovaniy (Joint Institute of Nuclear Research). Institut fiziki Akademii nauk Gruzinskoy SSR (Institute of Physics, Academy of Sciences Gruzinskaya SSR). Tbilisskiy gosudarstvennyy universitet (Tbilisi State University)

Card 3/4

Card 4/4

Formation of Charged Hyperons During Interactions S/056/60/039/005/011/051

SUBMITTED: 0961, 9, 1960

56898

5/048/62/026/006/007/020 B125/B112

AUTHORS:

Dzhanelidze, L. P., Kostanashvili, N. I., Lebedevich, G. I., Mandritskaya, K.V., an Shakhulashvili, O. A.

TITLE:

Transverse momenta of charged 2+-hyperons produced by 9-Bev

protons in a photoemulsion

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya, v. 26, no. 6, 1962, 734 - 736

TEXT: The Z-hyperons were produced by irradiating a photoemulsion of type EP-400 HNKON (BR-400 NIKFI) in the inner 9-Bev proton beam of the Olyal synchrocyclotron. The emulsion chamber consisted of hundred emulsion layers. After 22000 tracks had been evaluated, 42 >-hyperons were chosen. 30 5-hyperons were chosen under similar conditions at the OIYaI. A certain "weight" is attributed to each \(\subseteq \)-hyperon. The cases chosen were identified by comparing the measured ionization and its multiple Coulomb scattering. The maximum of the distribution of the transverse momenta extending up to p_{\perp} = 600 MeV/c is at 300 - 400 MeV/c.

From this spectrum $\langle p_{\perp} \rangle = (327 \pm 14)$ MeV/c is inferred for the mean value

Card 1/2

KOSTANASHVILI, N.I.; LEBEDEVICH, G.I.; MANDRITSKAYA, K.V.; SHAKHULASHVILI, O.A.; DZHANELIDZE, L.P.

Transverse momentum of charged \sum -hyperons generated by 9 Bev. protons in a photographic emulsion. Soob. AN Gruz. SSR 30 no.5: 553-557 My 163. (MIRA 16:11)

Institut fiziki AN GruzSSR, Tbilisi. Predstavleno akademikom E.L.Andronikashvili.

DZHANELIDZE, L.P.; KOPYLOVA, D.K.; KOROLEVICH, Yu.B.; KOSTANASHVILI, N.I.;
MANDRITSKAYA, K.V.; PETUKHOVA, N.I. [deceased]; PODGORETSKIY, M.I.;
TUVDENDORZH, D.; SHAKHULASHVILI, O.A.; CHZHEN PU-IN [CHEN P'U YING]

THE SAME REPORTED THE RESERVE OF THE PROPERTY OF THE PROPERTY

Production of charged hyperons by 9 Bev. protons interacting with nuclei of photo emulsion. Zhur.eksp.i teor.fiz. 39 no.5:1237-1241 N **160.

1. Obryedinennyy institut yadernykh issledovaniy, Institut fiziki AN Gruzinskoy SSR i Tbilisskiy gosudarstvennyy universitet.

(Mesons) (Protons) (Photography, Particle track)

AUTHORS: Oterin, D. and Kostanda, L. SOV/130-58-6-18/20

TITIE: Dissemination of Advanced Practice (Propaganda

15.05.655年516.08日的公司的国际政策的政策的企业的国际政策的企业,其中国际政策的国际政策的企业,以及大学、15.05.655克尔·

peredovogo opyta)

PERIODICAL: Metallurg, 1958, Nr 6, p 36 (USSR).

ABSTRACT: The authors give a brief account of efforts made at the Staling Metallurgical Works to keep workers and staff abreast of the latest developments in iron and steel production. In addition to talks by personnel of the work (e.g. Kharagirlo and Shcherbin) and official lectures (160 in 1957) frequent visits are paid by groups to neighbouring works and also to others in the USSR. Detailed studies are made of the working methods of particularly successful operators (Samoylev, Zhernov and Derevyanko are named) and technical information bulletins produced at the works as well as technical literature are widely disseminated. Works' personnel are given opportunities of improving their qualifications, and a museum showing

Card 1/2

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825210005-8"

Dissemination of Advanced Practice

SOV/130-58-6-12/20

the growth of the works since its foundation in 1872 has been provided.

ASSOCIATION:

Stalinskiy metallurgicheskiy zavod (Stalino Metallurgical Works)

Card 2/2

1. Metallurgy - USSR 2. Employee relations

25(1), 28(1)

507/118-59-9-13/20

AUTHOR:

Geyer V.G., Doctor of Technical Sciences, Professor and

Kostanda V.S., Engineer

TITLE:

Hydraulic Lifting of Pulp by Air-Lifting and Coal-

Suction Air-Lifting Installations

PERIODICAL: Mekhanizatsiya i avtomatizatsiya proizvodstva, 1959,

Nr. 9, pp 52-56 (USSR)

ABSTRACT:

At the present time, almost all hydro-shafts are using centrifugal pumps for lifting coal-rock pulp. There are many advantages in applying this method: the feed of pulp from the face to the concentrating factory is performed without reloading, the lifting process is simple, and its efficiency is satisfactory. However, this method can be applied only where the lifting height is under 250 m, otherwise several successively connected pumps are required. In such cases, it is more expedient to apply a coal-suction air-lifting device

(Fig. 1). This method permits the lifting of pulp to a height of 600 m and more; its efficiency can be regulated within broad limits by changing the pressure and

Card 1/3

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825210005-8

SOV/118-59-9-13/20

Hydraulic Lifting of Pulp by Air-Lifting and Coal-Suction Air-Lifting Installations

> volume of the air entering the air-lift. Due to diminishing of the working gear number through which the pulp passes, there will be less coal breakage. In case where the pulp is delivered to the shaft by gravity feed, air-lifting installation can be applied (Fig 2). Advanced features of this installation are: Absence of reduced coal breakage; possibility of moving parts; lifting large pieces of coal (by applying pipelines of 30-40 cm in diameter, 15-20 cm large coal pieces can be transported); possibility of an automatic output change. The air compressors are installed on the surface, which permits using the most economical synchronized machines, raising safety of operations and reducing the number of accidents. The efficiency of a coal-suction lifting device is a comparatively stable value equal to 0.36, while the general efficiency of an air-lift installation is 0.58. At the Donetskiy Industrial Institute, research of operating conditions for air-lifting and coal-suction air-lifting installations had been carried out. It was

Card 2/3

SOV/118-59-9-13/20

Hydraulic Lifting of Pulp by Air-Lifting and Coal-Suction Air-Lifting Installations

established that both installations can work with high pulp concentrations (Solids: Liquid = 1:1.5). The maximum size of coal pieces could amount to 0.5 of the smallest section of the air-lift pipeline. There are 3 graphs, 2 tables and 3 diagrams.

Card 3/3

RYSIN, N.G., inzh.; KOSTANDA, V.S., inzh.

Coal-suction airlift system. Ugol' Ukr. 5 no.5:33 My '61.

(Hydraulic conveying)

(Hydraulic conveying)

KOSTANDI, F.F.

AID P - 5433

Subject : USSR/Aeronautics - airdrome maintenance

Card 1/1 Pub. 135 - 10/31

Author : Kostandi, F. F., Eng.-Col., Kand. of tech. sci.

Title : To use more extensively the experience of outstanding

personnel of engineering and airdrome service.

Periodical: Vest. vozd. flota, 1, 47-52, Ja 1957

Abstract : How to meet the requirements for maintaining the air-

dromes in good order for flying activities, particularly in winter, is discussed by the author in this article. Six photos, I diagram. The article merits attention.

Institution: None

Submitted : No date

	<u> </u>		
	USSR/Radio Transmitters Keying systems	Feb 1947	÷
	"Reying Transmitters," C. G. Kost	tandi (UALAA)	
	"Radio" Vol XX, No 2	•	•
	Discussion of necessary fundament for satisfactory operation of tre Schemes of Keying also discussed	nanttere.	
		9 T 37	
,			· •
•			

KOSTANDI, G.	en e		FA 22/49T91	
	USSR/Radio Equipment Frequency Changers	Cot 48	•	
	"Converter and Attachment," G. I	Costandi, 2 pp		
	"Radio" No 10			
	Describes (1) short-wave convert long-wave attachment stabilized Includes four photographs, and s circuit diagrams.	by quarts		
	ıc	22/49191	· ·	ş

	KOSTANDI,	G. 20 0 773	converter makes use of a crystal mixer (an ordinary silicon detector taken from a Komsomolets crystal receiver).	Short-Wave	Soviet short-wave enthusiasts are making increasing use of the al-Mc band, but many short-wave receivers owned by radio clubs and individual amateurs do not have this band. Kostandi has designed a simple adapter to permit reception of amateur stations working the 21-Mc band. The	UBER/Radio - Receivers, Short-Wave Adapter "A Tubeless Short-Wave Converter (Adapter)," G. Kostandi (UAJAA) "Radio" No 11, pp 47-49
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KOSTANDI, G.

USER/Electronics - Radio Transmitters Mar >2

"A Club FM/AM Transmitter," G. Kostandi

"Radio" No 3, pp 23-28

Describes club FM/AM transmitter for which G.

Kostandi and V. Komylevich received a 1st class
diploma and a 3d prize at the 9th All-Union Radio
diploma and a 3d prize at the design is quite complex
Exhibition. States that the design is quite complex
and therefore the transmitter should be constructed
only by groups of amateurs who are experienced in
transmitter work.

229163

Kostandi G.			AND IT WITH THE STREET PROPERTY AND ADDRESS OF THE PARTY	BBRRADE MARIE A
	230766	has two crossed folded dipoles fed at points which are 90° out of phase. The phase shift is the dipoles.	Describes an antenna for amateur USW stations (85-87 Mc) which has horizontal polarizations actrcular radiation pattern. The antenna consists of a "Braude tourniquet antenna", which	WSR/Electronics - Ultrashort Waves Apr 52 An Ultrashort-Wave Antenna (Shown at the Minth [Call no]) All-Union Radio Exhibition), "G. Kostandi, UAlaa

Kostandi,	Ğ.	ļ			•	72.			<u>.</u> '.			ı
						amateur other r		Descr and c cepti erati	Radi	"An Ultra All-Union Leningrad	USSR,	
						amateur band on other receiver from 10 to 12]		Describes 2 and one bati ception of a erating in t	"Radio" No 7, pp 43-47	"An Ultrashort-Wave Adapter (Shown at All-Union Exhibition)," G. Kostandi V. Leningrad	USSR/Electronics	
						d or a		2 tyn attern f amai n the ort-wa	07,	shor Exh	tron	
				•		TATE OF	İ	bes 2 types e battery-on n of amateu g in the 85 short-wave	þþ	t-Wa 1b1t	1cs	١.
					. •	r a spread 25-m brace having a short-wave Mc.			<u>դ-</u> -Ըդ	ve A ion)	₹ 5	
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						braodcast		one h wi wave		(Shown costand:	ns Sa	
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					1,	band or continue		line-ope ll permit stations used with		-		
		(V)				least band or an band continuous	226139	of adapters, one line-operated perated, which will permit re- r ultrashort-wave stations op- 87 Mc band when used with ei- receiver having a spread 20-m		the 10th	Tut.	
		226779				E	3	# i T ï ĝ		, A.	8	
		. 7				- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						

KOSTANDI, G.

235T55

USSR/Electronics - Television FM Broadcasting

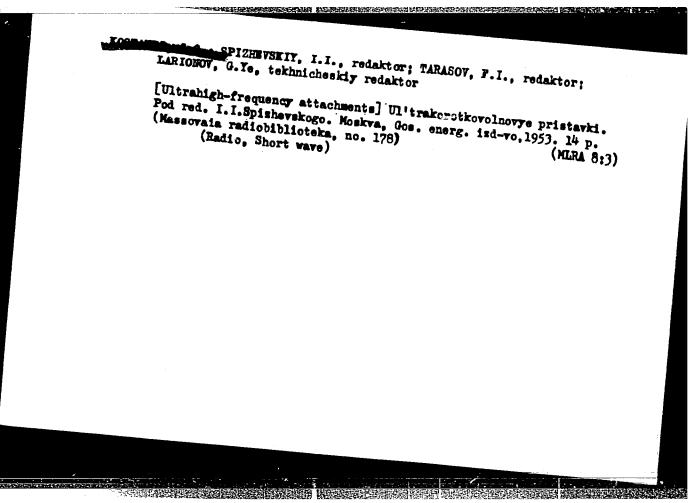
Oct 52

"An Ultrashort-Wave Adapter for the KVN-49 Television Receiver," Ye. Dryzgo, G. Kostandi

"Radio" No 10, p 37

Television stations can be used for FM broadcasting when they are not telecasting. The T-1 Moskvich, T-2 Leningrad, and T-1 Leningrad television receivers are equipped to receive such broadcasts. Describes an oscillator adapter unit for the KVN-49 which makes possible the reception of FM broadcasts.

235155



MOSTANDI, G., Leningrad; KOMAROV, G., (Leningrad).

Ultra-short wave FM radio receiver set made of the parts of a "Moskvich."
Radio no.7:40-42 J1 '53.

(Radio, Short wave--Receivers and reception)

(Radio, Short wave--Receivers and reception)

DRYZGO, Ye.; KOSTANDI, G.

Ultra-short wave FM signal generator. Radio no.9:22-23 S '53. (MLRa 6:8)
(Radio, Short wave--Apparatus and supplies) (Radio frequency modulation)

KOSTANDI, G.

USSR/Electronics - Radio Receivers Ultrashort-Waves

Oct 53

"Constructing Circuits of Combined [AM/FM/USW] Radio Receivers," G. Kostandi, V. Khevrolin

Radio, No 10, pp 28-31

Author proposes standards for ultrashort-wave receivers regarding frequency, selectivity, and sensitivity. Discusses selection of circuit components for FM receivers, use of reflex circuits, and gives 7 block diagrams of combined AM/FM/USW circuits.

276125

Qua	rtz calibrator.	Radio no.10	:42-43 0 153.	_	(MIRA	6:10)
	(madio, Sho	rt waveRece	ivers and rec	eption) (Ra	dio measurem	ents).

KOSTANDI, G. G. LEVENSTERN I. I.

"Design of Combined Receivers for Microwaves," Tr. Vses. N. -i. in-ta radioveshchat. priyema i akustiki, No 1, 1954 pp 35-50

Basic parameters of combined radio receivers for FM microwave signals are described. Schematic diagrams for modernization of these receivers are analyzed. The advantages of shot detectors for reception of FM signals are indicated.

RZhFiz, No 3, 1955

USSE/ Electronics - Radio receivers

Card 1/1 Pub. 89 - 13/27

Authors : Kostandi, G., and Yakovlev, V.

Title : A combined AM and FM receiver

Periodical : Radio 2, 26-29, Feb 1954

Abstract : A 7-tube super-heterodyne radio receiver is described. The set operates on the following four frequency ranges: 150 - 410 Kc; 520 -600 Ka; 4.0 - 13.5 Mc and 64 -76 Mc. Circuit diagrams; drawings.

Institution:

Submitted:

Kostandi, G.					
USSR/Electro	nics	- Generators			
Card 1/1				4.	
Authors	:	Kostandi, G.; and Yakovi	lev, V.		
Title		A crystal noise generate	o r		
Periodical		Radio, 3, 30 - 31, Mar,	1954		
Abstract	***	The article gives a gene their use; an exemplary of the generator are giv	circuit, and a ge	ystallic diod meral and ins	es and ide view
Institution					
Submitted	*				

经股本政治 计引用未记记计记标记记记录的对话的复数形式 化进行通过存储器

KOSTANDI, G. USSR/Electronics

Card 1/1

Authors : Kostandi, G., Levenstern, I. and Shteyert, L.

Title : Devices for Tuning Ultrashort-Wave Receivers

Periodical : Radio. 5, 57 - 61, May 1954

Abstract: The article describes several instruments used for regulating or tuning ultrashort-wave receiver units, and radio-outlet point adapters. The following equipment is described and the related circuit diagrams are shown: 1) a quartz oscillator for medium-frequency wave control; 2) an ultrashort-wave quartz oscillator; 3) a wide-band USW amplifier, and 4) a USW piezoelectric oscillator. The article also gives the description and the block diagram of the distribution network,

tables.

Institution:

Submitted :

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825210005-8"

indicating the position of points to be tested and tuned. Diagrams:

KOSTANDI, Georgiy Georgiyevich; TARASOV, F.I., red.; VORONIN, K.P., OKRIN.red.

[Homemade ultrashortwave units and receivers] Samodel'nye ul'tra-korotkovolnovye pristavki i priemniki. Moskva, Gos.energ.ikd-vo, 1955. 39 p. (Masovata radiobiblioteka, no.221) (MIRA 11:2) (Radio, Short wave—Receivers and reception)

USSR/ Elec	tronics - Triode amplifiers	
Card 1/1	Pub. 89 - 19/30	
Authors	* Kostandi, G., and Levenstern, I.	
Title	1 Triode amplifiers for meter waves	
Periodical	Radio 3, 38 - 39, Mar 1955	
lbstract	The technical factors involved in the amplif	ication of short waves are
ostract	The technical factors involved in the amplif analyzed, particularly, in reference to the cation of meter waves, the triode having bee of its own and high input resistance. The l ing and other points are explained. Diagram	use of triodes in the amplif n found to possess less soun ayouts of the circuits, grow
Institution	analyzed, particularly, in reference to the cation of meter waves, the triode having bee of its own and high input resistance. The ling and other points are explained. Diagram	use of triodes in the amplif n found to possess less soun ayouts of the circuits, grow
	analyzed, particularly, in reference to the cation of meter waves, the triode having bee of its own and high input resistance. The ling and other points are explained. Diagram	use of triodes in the amplif n found to possess less soun ayouts of the circuits, grow
Institution	analyzed, particularly, in reference to the cation of meter waves, the triode having bee of its own and high input resistance. The ling and other points are explained. Diagram	use of triodes in the amplif n found to possess less soun ayouts of the circuits, grow

	5TANDI, Q.[G.]
USER/Electron	lcs - Frequency converters
Oard 1/1	Pub. 89 - 16/28
Authors :	Kostandi, G., and Levenstern, I.
Title 1	Metric wave frequency converters
Periodical :	Radio 4, 29-30, Apr 1955
Abstract 1	A description is presented of several types of pentode and triode grid converters used as metric-wave frequency converters in heterodyne receiver sets. Oircuit diagrams.
Institution:	

ussr/Electr	onics - Signal generators
Card 1/1	Pub. 89 - 25/27
Authors	* Kostandi, G., and Shteyert, L.
Title	* Universal UHF AM/FM signal generator
Periodical	Radio 8, 57-59, Aug 1955
	그 항공 등 이번 바다 회문화 비로 주의하고 있는 작품을 빼고 하는데 그는 그는 그는 그를 하는 것으로 하는데 그게
Abatract	Description is given of a simple and sufficiently compace UHF signal generator which permitts tuning and control of the UHF channel of combination radio receivers and the audio channel of TV-sets. The principle circuit diagram, parts arrangement and mode of operation of the universal UHF AM
	Description is given of a simple and sufficiently compace UHF signal generator which permitts tuning and control of the UHF channel of combination radio receivers and the audio channel of TV-sets. The principle circuit.
Abatract	Description is given of a simple and sufficiently compace UHF signal generator which permitts tuning and control of the UHF channel of combination radio receivers and the audio channel of TV-sets. The principle circuit diagram, parts arrangement and mode of operation of the universal UHF AM

buddy miditronics - Frequency Convertor

Fu-unya

Card 1/L

A. . -4/1

Author

: Levenstern, I. I., and Kostandi, G. G., Acting Hamburs, (VNORIE)

THE PARTY OF THE P

Title

: Metric-wave triode frequency convertor

Periodical

: Radiotekhnika, 10, 29-35, Jun 55

Abstract

circuits which satisfy the right requirements of a modern made receiver are discussed. The triode frequency convertor, built in the fold of a double bridge, has the advantages of high transfer ratio, low voltage leak, and low noise factor. The two best frequency convertor circuits for operation in the ultrahigh-frequency range (60-80 megacycles), are those with the induction bridges and those with the capacitance bridge coupled to the grid circuit. Double triodes with separate cathode leads were used in this experiment. The calculated values for the transfer ratio of the two frequency convertor circuits were compared with the experimental values and were found to be in good agreement. Graphs.

Institution

: All-Union Scientific and Technical Society of Radio Engineering and

Electric Communications imeni A. Popov (VMCRiz)

Submitted

: June 16, 1954

KOSTAHDI, Georgiy Georgiyevich; YAKOVLEV, V.V.

[Ultrashortwave receivers for amateurs] UKV Priemmiki dlia
liubitel'skoi sviszi. Moskva, dos.energ.izd-vo, 1958, 31 p.
(Massovain radiobiblioteka, no.)302) (MIRA 12:11)
(Radio, Shortwave--Receivers and reception)

KOSTANDI. Georgivatich; Yakovizv, Valeriy Vladimirovich;
LOMANOVICH, V.A., red.; BORUNOV, M.I., tekhn.red.

[UHF radio receivers for amateur radio communication] UNV priemiki dlia limbitel skoi sviazi. Izd.2. Moskva. Gos.energ.
izd-vo, 1960. 31 p. (Massovaia radiobiblioteka, no.367).

(Radio, Shortwave--Receivers and reception)

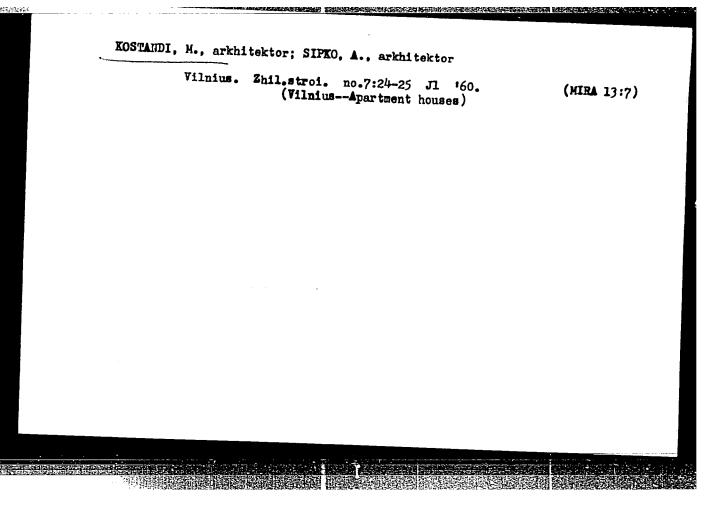
(Radio, Shortwave--Receivers and reception)

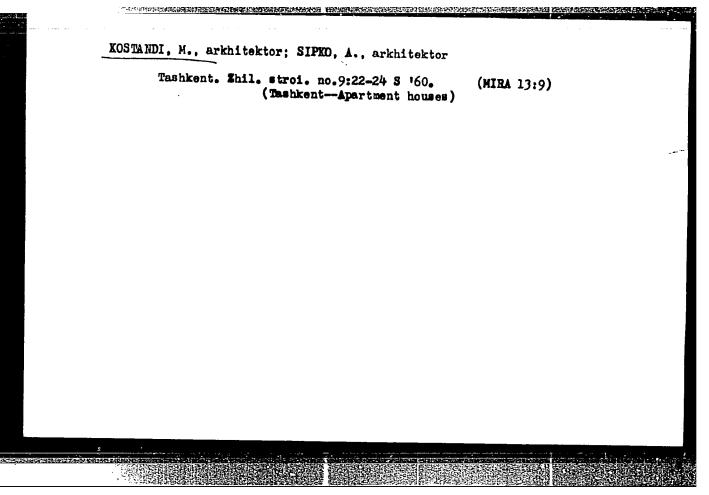
SADOV, F.I., prof.; KALININA, K.G., dotsent; Prinimali uchastiye:
SHESTERNINA, P., studentka; KOSTANDI, L.A., student
Role of surface active agents in the dyeing of acetate rayon fabrics with disporsed dyes. Tekst.prom. 21 no.9:51-53 S '61.

1. Moskovskiy tekstil'nyy institut.

(Dyes and dyeing—Rayon)

(Surface—active agents)





KOSTANDI, M., arkhitektor; SIPKO, A., arkhitektor

Hovosibirsk. Zhil. stroi. no.11:24-26 N '60. (MIRA 13:11)

(Novosibirsk--Apartment houses)

KOSTANDOV, E. A., Aspirant

"Disruption of Cortical Dynamics, Especially of the Joint Action of the First and Second Signal Systems, During Schizophrenia." Cand Med Sci, Inst of Higher Nervous Activity, Acad Sci USSR, 17 Sep 54. (WI, 7 Sep 54)

SC: Sum 432, 29 Mar 55

,然后,我们就是我们的一个人,我们就是我们的一个人,我们就是我们的一个人,我们就是我们的一个人,我们就是我们的一个人,我们就是我们的一个人,我们就是我们的一个人

KOSTANDOV, Ye.A.

Disorders in the neurodynamics and particularly in the interaction of the cortical signal systems in paranoid schizophrenia. Trudy Inst. vys.nerv.deiat. Ser.patofiziol. 1:26-47 *55. (MIRA 9:8) (SCHIZOPHREMIA) (COMDITIONED RESPONSE)

USSR/Medicine - Neuropathology, Psychiatry

FD-2797

Card 1/1

Pub 154-18/19

Author

: Kostandov, E. A.

Title

: Scientific conference on questions of sleep therapy

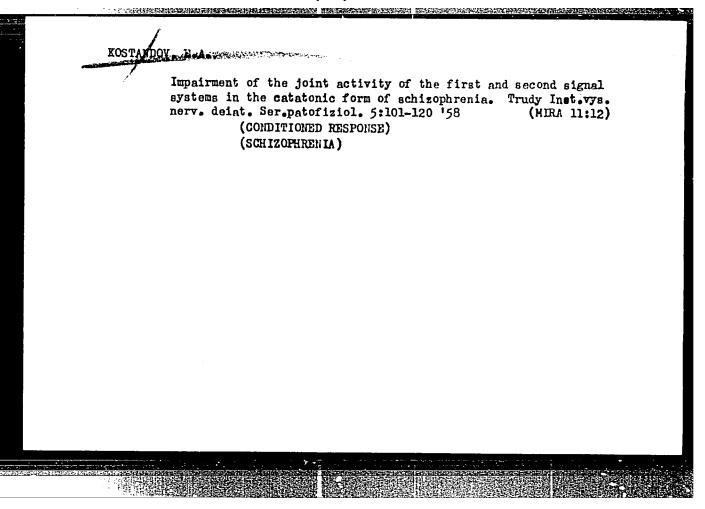
Periodical

: Zhur. vys. nerv. deyat. 5, 299-303, Mar-Apr 1955

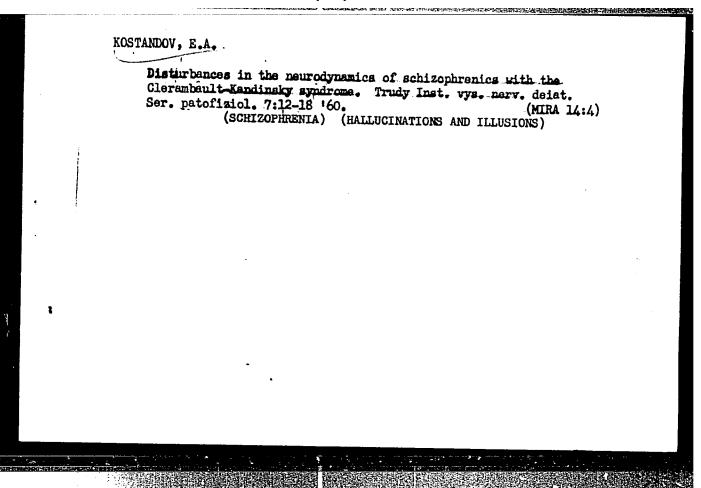
Abstract

cives an account of the Scientific Conference on Questions of Bleep Therapy, as used in neuropathologic and psychiatric clinics, held at the end of 1954 at the Institute of Higher Nervous Activity of the Academy of Sciences USSR. Summarizes reports given by the following participants:

A. G. Ivanov-Smolenskiy, L. I. Kotlyarevskiy (Inst of Higher Nervous Activity of Acad Sci USSR), M. M. Aleksandrovskaya (Inst of Higher Nervous Activity of Acad Sci USSR), A. O. Dolin (Inst of Obstetrics and Gynecology of the Ministry of Health USSR), N. A. Kryshova (Inst of Physiology imeni I. P. Pavlov, Acad Sci USSR), L. I. Aleksandrova (Inst of Neurology, Acad Med Sci USSR), Yu. A. Povorinskiy (Inst of Psychiatry imeni Bekhterev, Leningrad), M. I. Seredina (Inst of Higher Nervous Activity, Acad Sci USSR), O. V. Kerbikov (2nd Moscow Medical Institute), D. Ye. Melekhov (Inst of Psychiatry of the Ministry of Health RSFSR), am I.V. Strel'chuk (Inst of Higher Nervous Activity, Acad Sci USSR).



Comparative characteristics of disturbances of cortical dynamics in paranoid and catatonic forms of schizophrenia. Trudy Inst. vys. nerv. deiat. Ser. patofiziol. 7:5-11 '60. (MIRA 14:4) (SCHIZOPHRENIA)



KOSTANDOV, E.A.

Disturbance in the higher nervous activity of patients with involutional depression. Trudy Inst. vys. nerv. deiat. Ser. patofiziol. 7:81-94 (MIRA 14:4) (DEPRESSION, MENTAL) (CONDITIONED RESPONSE) (NERVOUS SYSTEM)

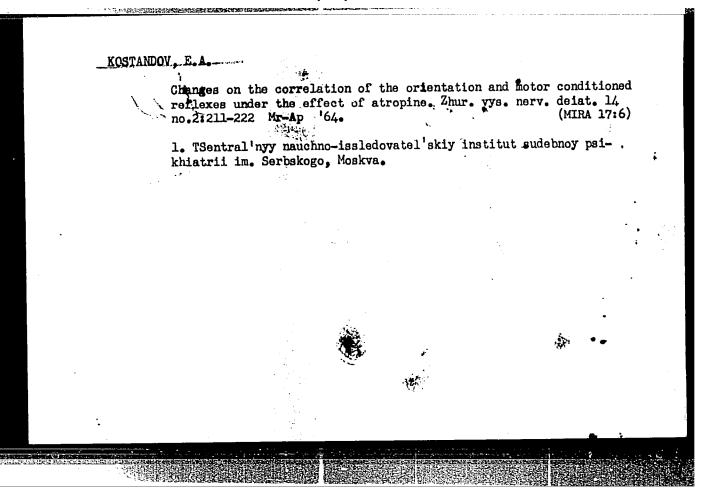
KOSTANDOV, E.A.

Disorders in the analysis and synthesis of complex stimuli in patients with involutional depression. Zhur. vys. nerv. deiat. 10 no.2:189-194 Mr-Ap '60. (MIRA 14:5)

1. Institute of Higher Nervous Activity, U.S.S.R. Academy of Sciences, Mowpowi (DEPRESSION, MENTAL) (CONDITIONED RESPONSE)

KOSTANDOV, E.A.

Pathodynamic structure and disorders of the interaction between the cortex and subcortex in reactive states. Prob.sud.spikh.10 127-132'61. (MRA 16:7) (BRAIN—DISEASES) (PSYCHIATRIC RESEARCH)



KONTANDOV, H.A.

Role of disorders in corticofugal influences in pathology of the orientating reflex in schizophrenia patients. Zhur. vys. nerv. ceist. 13 no.6:995-1009 N-D '63. (MIRA 17:7)

l. TSentral'nyy nauchno-isaledovatel'skiy institut sudebnoy psikhiatrii imeni Serbskogo.

KOSTANDOV, E.A.

Changes in cortical and subcortical interactions under the effect of aminazine. Thur. vys. nerv. deiat. 14 no. 3: 397-405 ly.Je '64. (MIRA 17:11)

1. Serbsky Central Research Institute of Forensic Fsychiatry, Moscow.

Effect of advanaline on the nervous mechanisms of the orienting reflect. Thur.vys.nerv.deiat. 14 nc.61975-983 N R 154. 1. Thentral day nauchno-desaledovatel skip institut audebnoy psikh(atril in. V.F.Nerbskogo, Moskva.

L 54623-65 ENT(1)/ENA(5)/ENA(6)-2/T BN/RO

ACCESSION NR: AP5017953

UR/0246/64/064/009/1348/1355

AUTHOR: Kostandor, E. A.

TIPLE: Effect of carbocholine on the nersous mechanisms of the orientation reflex

SOURCE: Zhurnal nevropatologii i paikhietrii, v. 64, no. 9, 1964, 1348-1355

WPIC TAGS: electrosnoephalography, nervous system drug, psychoneurotic disorder, brain, meurology

Abstract: The effect of carbocholine has been studied on 36 schirophrenic patients with apathico-aboulic syndrome, in a state usually defined as effective. The duration of the disorder in most of the patients
was more than 5 years. Ten persons undergoing examination in the institute were selected for the controls, in whom no signs of disturbances of
psychic activity were found. The investigated functions were recorded
on a sixteen-channel pen-recording electroencephalograph. The biocurrents of the cerebral cortex were picked up monopolarly, symmetrically
from both sides from the frontal, temporal, and occipital regions. Also
muscles, and EKG, respiration, a skin-galvanic response, a plethysmo/,rav.
of the heat (temple area) and hands (fingers). A tone from the VG-12

L 54823-65

ACCESSION NR: APSO17953

generator with a frequency of 1,000 cps and loudness 60-65 decibels above the level of normal audibility served as the stimulus, along with indifferent and situational (with respect to the situation of conflict) words, spoken by the experimenter into a microphone. In almost all cases (34 out of 36) more or less pronounced changes in bicelectrical, autonomic, and motor functions were observed against a background of carbocholine action. Carbocholine induces changes in the autonomic functions. In almost all patients intensified sweating was observed, along with a slowing down of the pulse rate by 4-20 beats per minute, while changes in respiration and reduction in amplitude of pulse beats on the plethysmogram were somewhat less frequently observed. Respiration usually quickened or became uneven, arrhythmic. Carbocholine also intensified motor activity. This usually was expressed by the manifestation or intensifying of the general muscular tonus of the patient, recorded on the EEG in the form of muscular artifacts, and also in an appreciable quickening of the intersignal movements of the head and eyeballs, and by shuddering of the entire body. The use of a cholinergie agent, (carbocholine) induced in half of the patients intensified tonic activating effects of the reticular formation of the brainstem on the cortex, which was expressed on the EEG in diffuse desynchronisation of cortical potentials. In addition, in some cases carbocholine also strengthened the supplementary activities of Card 2/3

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the acti	s definite vating syst has 2 figu	ervent on tem.	disturbances of the	instem on the cortex cholinergic mechanis	as .
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' sychiatry ' UBHITTED:	•		ENCL: 00	SUB CODE: PH. I	G
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L 60971-65 EMP(k)/EMP(h)/EMT(d)/EMA(d)/EMP(1)/EMP(v) Pf-4

ACCESSION NR: AP5018281

UR/0314/65/000/007/0007/0009

621.512

AUTHOR: Bershadskiy, S. A. (Engineer); Zaytsev, D. A.; Kostandov, K. A. (Engineers)

TITLE: A high pressure gauge for compressors

SOURCE: Khimicheskoye i neftyanoye mashinostroyeniye, no. 7, 1965, 7-9

TOPIC TAGS: ultrahigh pressure gauge, high gas-pressure gauge, quartz piezoelectric gauge

ABSTRACT: The authors constructed a new very-high-pressure piezoquartz gauge which can register pressures from 0 to 500 kg/cm², has a sensitivity of 8·10⁻¹³ Coul/kg/cm², a time constant of 30 sec, and an insulation resistance at 20C of 10¹³ ohm; the sensing element of the gauge weighs 115 g. The article describes its construction, presents the calibration and registration curves, and describes its general operation. Orig. art. has: 4 figures.

ASSOCIATION: None

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KOSTANDOV, L.A.

Technical pregress in the mitregen industry. Thim.mauka i prem. 1
ne.6:602-605 '56. (MLRA 10:3)

1. Machal'mik Glavacge upravleniya amotney promyshlennesti.

(Witregen industries)

KOSTANDOV, L.A.

Means for meeting the needs of agriculture in mineral fertilizers.

Thim. prom. no.1:1-4 Ja-F '57. (MEA 10:4)

(Fertilizers and manures)

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wersion of methane from cone gas was an accordance of natural gas in the northern parts of the Caucasus, on the

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