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33141 s/120/61/000/006/007/041 21.6000 E032/E114 AUTHORS : Khrimyan, A.V., Yegiyan, K.Sh., Nalbandyan, N.A., Avakyan, V.V., and Karapetyan V.A. Measurement of charged-particle masses with the aid TITLE : of scintillation counters PERIODICAL: Pribory i tekhnika eksperimenta, no.6, 1961, 52-56 The method can be used to (a) select particles which TEXT: stop in the scintillator owing to ionization losses, and (b) to determine the mass of the particles by measuring their energy and range in the scintillator. The device consists of a telescope of n scintillation counters (C_1, \ldots, C_n) with thickness t_1, \ldots, t_n respectively. If a particle which has passed at an angle of φ through k - 1 scintillators has come to rest in the scintillator C_k at a depth ℓ_X , and at the end of its range in the m + 1 scintillators C_{k-m}, \ldots, C_k the energy losses $\Delta E_{k-m}, \ldots, \Delta E_k$ were due to ionization only, then it can be shown that: Card 1/6 χ

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33141 s/120/61/000/006/007/041 Measurement of charged-particle... E032/E114 where ΔE_k is given by Eq.(4). The range of a particle in the scintillators C_{k-m}, \ldots, C_k is given by: $R = \left(\sum_{i=k-1}^{k-m} \ell_i + \ell_x\right) \operatorname{cosec} \varphi$ (7)in which all the quantities except ${m \ell}_{{\rm X}}$ are known. tillators are looked upon as simple filters then If the scin $l_{\rm x} = 1/2 \ l_{\rm k} \ \pm \ 1/2 \ l_{\rm k}$ ℓ_x can also be determined from a relation of the form: (3) $l_{x} = F(f_{0}, l_{k-1}, l_{k-2})$ In order to verify the above method the authors have used the results obtained with the instrument described by A.I. Alikhanov, A.V. Khrimyan, V.K. Kosmachevskiy, V.V. Avakyan, Yu.V. Gorodkov, K.Sh. Yegiyan and N.A. Nalbandyan (Ref.6: Proceedings of the International Conference on Cosmic Rays, 1959, 1960, v.1, 183) Card 4/6

33141 s/120/61/000/006/007/041 Measurement of charged-particle ... E032/E114 The instrument consists of a magnetic mass spectrometer, a fivelayer proportional counter (A.I. Alikhanov, V.A. Lubimov, G.P. Elisiyev, CERN Symposium, v.2, 1956, 87) and five scintillation counters (V.K. Kosmachevskiy and M.S. Aynuddinov, PTE, no.3, 1956, 49). The rms error in the momenta between 0.2 and 1 GeV/c was approximately 8 to 5% for protons and 2 to 4% for K-mesons. The ionizing power of the particles could be measured with the proportional counter to an average accuracy of For particles stopping in the scintillation counters the ± 14%. average losses in the scintillators could be measured to \pm 10%. Preliminary results indicate that the efficiency of selection of particles which come to rest owing to ionization only is about 0.8. The average accuracy with which the masses can be determined from the energies and ranges is approximately 20%. The statistics on which these results are based are limited and therefore the results are only preliminary. The experiment did not confirm the possibility of investigating the masses and decays of unstable particles. The method may find wide-ranging applications and is amenable to automation. Acknowledgments are Card 5/6 210 21 1 1 5 V 1 2

Measurement o	of charged-particle	S/120/61/000/006/007/041 E032/E114
discussions, K.A. Khurshud G.M. Smsaryan in the organi There are 4 f Soviet-bloc. read as follo Ref.2: J.W. K Phys. Ref.4: Phys. Ref.5: E. Bir Phys. Ref.7: J. Ste High E ASSOCIATION;	A.I. Alikhanov and A.I. Alil and to Yu.V. Gorodkov, M.P. dyan, G.P. Matevosyan, V.V. 7 a, A.A. Oganesyan and B.V. To sation and execution of this figures and 11 references: 5 The four most recent English ows: Keuffel, R.L. Call, W.H. San Rev. Letters, v.l, 1958, 207 Rev., v.114, 1959, 1150. Than, R. Lea, J. Orear, S. Ro Rev., v.113, 1959, 710. Sinberger, 1958 Annual Intern Shergy Physics at CERN, General Fizicheskiy institut AN Arms (Physics Institute, AS Armet	Lorikyan, I.P. Karabekov, Truzyan, E.V. Patvakanyan, ovmasyan for assistance s work. Soviet-bloc and 6 non- sh language references dmann, M.O. Larson. 3. osendorff. national Conference on va, 1958. SSR
SUBMITTED: Card 6/6	April 3, 1961	

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s/048/62/026/006/005/020 B125/B112 Khrimyan, A. V., Avakyan, V. V., <u>Nalbandyan, N. A.,</u> Yegiyan, K. Sh., and Pleshko, M. P. AUTHORS : Composition of the nuclear active cosmic radiation particle TITLE: current in the momentum range exceeding 1.8 Bev/c at 3250 m above sea level. I. PERIODICAL: Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya, v. 26, no. 6, 1962, 722 - 727 TEXT: The relative number of pions present in the current of nuclear active cosmic radiation particles was determined for momenta above 1.8 Bev, at an altitude of 3250 m on the Aragats mountain in Armenia. A magnetic mass spectrometer (6850 oe) was used, the measuring apparatus comprising also a five-layer gas proportional counter and five sointillation on counters. The electrons, the muons, and the particles produced in the measuring apparatus itself were screened out. The first series of measurements recorded mainly the particles absorbed by the filters and their secondary products. In the second series all particles were recorded. At p = 1.8 Bev, 65 positively charged particles were recorded, Card 1/5

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38969 S/04B/62/026/006/019/020 B125/B102 9.615 Khrimyan, A. V., Yegiyan, K. Sh., <u>Nalbandyan</u>, N. A., Avakyan, V. V., and Karapetyan, V. A. AUTHORS: On the measurement of masses of charged particles by means TITLE: of scintillation counters Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya, PERIODICAL: v. 26, no. 6, 1962, 831-836 TEXT: A group of scintillation counters can be used to determine the stoppings due to ionization losses and the masses (range-energy measurement). The apparatus here used comprised a magnetic mass spectrometer ($\overline{H} = 6850$ oe), a five-layer proportional counter and five scintillation counters. After measuring the energies released from the particle in the scintillators C_1 , ..., C_n with the thicknesses $l_1, \ldots, l_n \ (n \ge 3)$ the stoppings due to ionization losses were distinguished from the nuclear interactions by applying the criterion Card 1/3

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	S/048/62/026/006/020/020 B181/B104	
AUTHORS :	Khrimyan, A. V., Yegiyan, K. Sh., Nalbandyan, N. A., Avakyan, V. V., and Karapetyan, V. A.	:
TITLE:	Mass measurements of low-intensity charged-particle groups by various methods	
PERIODICAL:	Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya, v. 26 no. 6, 1962, 837- 840	
determined f path, (3) mo and length o arrangement Yegiyan, M. spectrometer termining t	hass of particles produced by the action of cosmic rays was from (1) momentum and ionization, (2) momentum and length of mentum and energy, (4) ionization and energy, (5) ionization of path, (6) energy and length of path. The experimental (A. V. Khrimyan, V. V. Avakyan, N. A. Nalbandyan, K. Sh. P. Pleshko, present publication, p. 722) consisted of a mass r, a proportional counter, two scintillation counters for de- me energy and length of path, and three scintillation counters hing the energy losses of scattered particles. (2) and (3) too high, (4), (5); and (6) masses too small for the 203	

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ass measurements of 1	low-intensity	S/048/62/026/00 B181/B 104	6/020/020	• •	
rotons, 11 deuterons, hrough (6) give corrected with sufficient he necessary apparatu hambers, very thin-wa iven to method (1).	ect results only if ent reliability. As us (high ionization alled counting tubes	non-ionizing energy s it is difficult to gradient in very fl	losses are construct at Wilson	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
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24.6700	35555 S/056/62/042/003/005/049 B117/B112	
AUTHORS :	Khrimyan, A. V., Avakyan, V. V., <u>Nalbandyan, N. A.</u> Yegiyan, K. Sh., Pleshko, M. P.	
TITLE :	Composition of nuclear-active cosmic-ray particles with momenta above 1.8 Bev/c at an altitude of 3250 m above sea level. I	• • •
PERIODICAL:	Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 42, no. 3, 1962, 669 - 674	,
particles in Aragats (Arm determine th gations were a hodoscope, scintillatio with a mean	ature and momentum spectra of nuclear-active cosmic-ray the momentum range above 1.8 Bev/c were studied on Mount enia) at an altitude of 3250 m above sea level in order to e relative number of pions in the particle flux. The investi- made with a magnetic mass spectrometer of 6850 oe including a thin-walled five-layer proportional counter, and five n counters. The momenta from 2 to 20 Bev/c were determined square error from 10 to 80%. The ionizing power of individual s determined with a mean error of ± 14% (gas counter) and	
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Composition of nuclear-active ...

s/056/62/042/003/005/049 B117/B112 257, 1954). It is noted that the determination of K-mesons, protons, and deuterons requires other methods. In the range ≥ 2 Bev/c, these particles

cannot be determined by measuring the ionization and momentum, or by the method applied here. Professor A. I. Alikhanyan is thanked for valuable hints, and V. Sh. Kamalyan, Yu. V. Gorodkov, I. P. Karabekov, B. N. Moiseyev, G. G. Matevosyan, E. V. Patvakanyan, G. M. Smsarayan, K. A. Khurshudyan, V. S. Truzyan, and N. A. Marutyan for assistance. There are 2 figures and 18 references: 10 Soviet and 8 non-Soviet. The four most recent references to English-language publications read as follows: A. G. Barkov, V. Chamany, D. M. Haskin, P. L. Jain, E. Lohrmann, M. W. Teucher, M. Schein, Phys. Rev., <u>122</u>, 617, 1961; I. H. Atkinson, W. N. Hess, V. Perez-Menez, R. W. Wallace, Phys. Rev. Lett., 2, 168, 1959; P. H. Barrett, Phys. Rev., 114, 1374, 1959; G. Bozoki, E. Fenyves, L. Janossy. Nucl. Phys., 24, 412, 1961.

ASSOCIATION: Fizicheskiy institut Akademii nauk Armyanskoy SSR (Physics Institute of the Academy of Sciences Armyanskaya SSR)

SUBMITTED: July 28, 1961

Card 3/3

APPROVED FOR RELEASE: Monday, July 31, 2000

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	S/252/63/036/002/002/003 D218/D308
uthors :	Kocharyan, N.M., Corresponding Nember of the AS Arm. SSR, Nalbandyan, N.A., Arakelyan, V.Ts. and Farshyan, G.S.
mle:	A-study-of-the-process of destruction and heat age- ing of polychloroprene rubber (nairite)
ERICDICAL:	Akademiya nauk Armyanskoy SSR. Doklady, v. 36, no. 2, 1963, 83-87
te (emulsion	The present paper is concerned with a study of the asound frequency on the degree of destruction of nair- copolymer of chloroprene with S, $-(CH_2-CC1 = CH-CH_2)n_1$, -CC1 = CH-CH ₂) n_2 - (S) m_2 where n is up to 100
r more and m ions by heat	up to 6) solutions, and with destruction of such solu- at moderate temperatures. The apparatus consisted of bath, and an ultrasonic generator, capable of an out- 50 w/cm ² at 400, 600, 3000, 4000 and 5000 kc/s and up
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 $D00 w/cm^2$ at 800, 1000, 1500 and 2000 kc/s. The temperature was
kept constant at 20°, to 1°C. Degree of destruction was assessed
by rel. viscosity, measured at 20 ± 0.1°C with Ostwald's viscometer.
The acoustic power used was 17 w/cm², and each frequency was tried
for 15, 30, 45, 60 and 90 min; nairite concentration was 0.75%, in
benzene. It was found that the viscosity η_t after t minutes of
sounding is
 $\eta_t = (\eta_0 - \eta_\infty)e^{-\beta t} + \eta_\infty$ (1)
where β is a constant, η_0 the initial viscosity and η_∞ the vis-
cosity at t = ∞. The mol. wt. decreases to a constant value,
which depends on frequency and power of the uitrasound; maximum de-
struction occurs at 800°C. Thermal and oxidative destruction also
begins rapidly and settles to a constant level (e.g. 10.5% after
1.5 months at room temperature in the presence of air, and 6.4% in
the absence of air). There are 3 figures and 1 table.
ASSOCIATION: Tsentral 'naya nauchno-issledowatel'skaya fiziko-
tekhnicheskaya laboratoriya Akademii nauk Armyanskoy
SSR (Central Scientific Research Physico-Technologi-
Card 2/3

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L 57091-65 EWT(m)/EPF(c)/EWP(j)/T/EWP(k) Pc-4/Pr-4 RM	
	1/039/004/0221/0226
AUTHOR: Kocharyan, N. H. (Corresponding member AN ArmSNR); Nalba Arakelyan, V. Ts.; Farshyan, G. S.	undyan, N. A.: 31
TITLE: Absorption of ultrasonic waves in benzene solutions of po	lystyrene 7 38
SOURCE: ANArmSSR. Doklady, v. 39, no. 4, 1964, 221-226	
TOPIC TAGS: ultrasonic wave, acoustic absorption, acoustic theor benzene, polystyrene, solution property	y, acoustic wave,
ABSTRACT: Reported on is the molecular mechanism of the propaga ultrasonic waves in polymer solutions. According to classical t augual absorption coefficient equals	beomr, the
$\alpha = \frac{2\omega^2}{3\rho \epsilon^3} \eta,$	
Where ω = cyclic frequency of sound, ρ = density of liquid, c = of sound, η = shift viscosity. For certain analogous series for alcound, η = shift viscosity. For certain analogous series for alcound, η = shift viscosity.	example.
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"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R001136020 L 57091-65 ACCESSION NR: AP5018545 0 experimentation has been observed. But for many liquids (aromatic hydrocarbons, acetates, formates, and others) even qualitative agreement of classical theory with experiment is incling. The inactivy to explain, from the classical theory point of view, certain effects associated with absorption of ultrasonic waves in liquids has led to a new relaxational theory of ultrasonic wave absorption. In the simplest case this theory yields an expression for the absorption coefficient in the form: $q' = \frac{\omega^2}{2\rho c^3} \left\{ \frac{4/3(\eta)}{1+\omega^2 \gamma_1^2} + \frac{\eta'}{1+\omega^2 \left(\frac{\rho c_0}{2c}\right)^2 \gamma_1^2} \right\}$ where T_1 = time of relaxation of shift viscosity; γ_2^{\prime} = time of relaxation of bulk viscosity; 1300- instantaneous elastic compressibility; 35 = ordinary statistical compressibility. the starting of an and the second second second Card 2/4

L 57091-65 ACCESSION NR: AP5018545	0
It was found that in a benzene solution of polystyrene excess absorption consists of two components. The first reduces the absorption coefficient,	
Concentration over the accord; therefore, according the is stated of a state of the	
Bolubions of polystyrene decreases with increase in temperature, for remut- terrary estimation of the entered of the second of the second of the second bulk location remains a first second of the second of the second of the second of the second second of the second of the second of the second of the second of the second of	·ĥ -
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57091-65 XXESSION NR: AP5018545 SSOCIATION: Tsentral'naya nauchno-iseledovatel'skaya fiziko-tekhnicheskaya aboratoriya Akademii nauk Armyanskoy SSR (Central Scientific-Research Physical- behnical Laboratory, Academy of Stiences Armenian SSF. UBMITTED: 27Apr63 ENCL: 00 SUF CODE: 0C,GP R REF SOV: 007 OTHER: 002 JPHS ************************************	ersenensen här anteren en e	and and the second s	IIIIII DENIMI SIMERADUN BRUSHAMAN MUTAN
Akademii nauk Arzyanskoy SSR (Central Scientific-Research Physical- ichnical Laboratory, Academy of Sciences Armenian JOP. JEMITTED: 27Apr63 ENCL: 00 SUF CODE: OC,GP R REF SOV: 007 OTHER: 002 JPHS 3' ', hard 4/4		-	1
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urd 4/4	IBMITTED: 27Apr63	ENCL: 00	SUF CODE: OC,GP
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KOCHARYAN, N.M.; PACHADZHYAN, Kh.B.; NALBANDYAN, N.A.; AGARONYAN, A.A. Fiysical properties of polymethylmethacrylate. Dokl. AN Arm. SSR 40 no.3:145-150 '65. (MIRA 18:12)

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1. TSentral'naya nauchno-issledovatel'skaya fiziko-tekhnicheskaya laboratoriya AN ArmSSR. 2. Chlen-korrespondent AN ArmSSR (for Kocharyan). Submitted July 12, 1964.

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KOVALEV, G.N.; RAABE, C.; NALBANDYAN, R.M.; GURMAN, V.S.; SERGEYEV, G.B. High-speed photochemical hydrobromination of ethylene and propylene at low temperatures. Dokl. AN SSSR 142 no.2:396-398 Ja '62. (MIRA 15:2) 1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova. Predstavleno akademikom N.N.Semenovym. (Ethylene) (Propene) (Hydrobromic acid)











iv de Odiy V	rr, 1		
Subject	:	USSR/Mining AID F	- 571
Card 1/1	Pu	ıb. 78 - 8/22	
Author	:	Nalbanov, G. Z.	
Title	:	The use of secondary methods of oil recovery with tensive pumping of water into the stratum in the Kama region	in- Krasno-
Periodical	:	Neft. Khoz., v. 32, #8, 31-32, Ag 1954	
Abstract	:	The author analyses the geological conditions in or strata having a number of cracks. Pumping of water pressurized wells is used for searching the remain deposits. The author recommends periodical pumping or gas instead of water until oil will not come ou the exploited oil well.	r into ning oil r of air
Institution	:	None	
Submitted	:	No date	

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SCHERENCE IN

Study of the genera of Botiinae and Cobitinae (Pisces, Ustariophysi, Cobitidae). Trav Muz Nat 4:343-379 '63.

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NALBAT, A.	.		_PA_42/49T55
· · · · ·	•		-
		USSR/Medicine - Anatomy Jan Medicine - Tumors, Chordoma	n/Feb 49
		"Causes of Chordoma," A. S. Nalbat, Chair Pathoanat', Khar'kov Med Inst, 4 pp	of
		"Arkhiv Patologii" Vol XI, No 1	
		Describes five cases in detail, with three graphs.	photo-
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	۰. معد بید دارد با ۰		


FRISHIN, M.P.: BRIND, A.I., Docent MALBAT, A.S., Docent

Skin - Tuberculosis

Case of pityriasis rubra pilaris in tuberculosis colliquativa successfully treated with vitamin $\rm D_2$. Vest. ven. i derm., No. 3, 1952

Monthly List of Russian Accessions, Library of Congress, October 1952. UNCLASSIFIED

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R001136020(

REPRESENTED INVESTO

a a second and a second second second and a second s NALBAT, A. S. USSR/Medicine - Psoriasis Jul/Aug 52 "Review of the Article Data on the Virus Etiology of Psoriasis, by A. M. Krichevskiy, P. V. Mikhailova, V. I. Myrzina, S. M. Patina, A. I. Pokhil, A. S. Nalbat, " (Prof. B. S. Yablenik, Frunze, reviewer) Vest Vener 1 Derm. No 4, po 30, 41 Describes an exptl infection of animals with psoriasis serum. Lab findings confirmed the author's assumption that a disorder in the lipide metabolism is a disthesis factor leading to the appearance of a complex of symptoms in a rabbit closely resembling psoriasis of man. On the basis of exptl work and clinical observations, the author assumes that a filterable virus is the causal agent of psoriasis.



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COUNTRY	
CATEGORY	: USDA : General Problems of Enthology . Tumors.
ABS. JOUR.	Comparative Oncology. Human Neoplasms. RZhBiol., No.23 1958, No.107096
AUTHOR INST.	D'gnoheazo, Ye.F.; Halbat, A.C.
TITLE	: A Case of an Angloma of the Felvic.
ORIG. PUB.	: Novyy knirung.arkhiv., 1958, no.2, 77-79.
ABSTRACT	: No abstract.

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HERE REPARTMENT FRANKLIKE STRATEGIST

CIA-RDP86-00513R001136020

NALBAT, A.S., FINKEL', Z.N.

Problem of thrombophlebitic splenomegaly. Sov.med. 22 no.10: 52-56 0 '58 (MIRA 11:11)

1. Iz kafedry patologicheskoy anatomii (zav. - prof. G.L. Derman) Khar'kovskogo meditsinskogo instituta (dir. - doteent I.F. Konenko) i prozektury (zav. prof. G.L. Derman) Oblastnoy klinicheskoy bol'nitsy Khar'kova (glavnyy vrach M.G. Madiyevskiy). (VEINS, PORTAL SYSTEM. dis.

thrombophlebitis causing splenomegaly (Rus)) (SPLENOMEGALY, etiol. & pathogen. thrombophlebitis of splenic veins (Rus))



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	TATIDAT	A.D.; ULU	IONOVA, I.I.			
		Peculiari 143-147 Ap		vositis in children.	Sov. med. 24 no.4: (MIRA 13:8)	
· · ·		kafedry pe Belousov)	ediatrii pediatriches Khar'kovskogo medits) na baze Oblastnoy kl	unatomii (zav prof. skogo fakul'teta (zav. sinskogo instituta (di linicheskoy bol'nitsy (MUSCLESDISEA	- prof. V.A. r dotsent I.F. (glavnyy vrach	
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NALBAT, A. S., DOC MED SC.I, "PATHONORPHOLOGY OF ENDO-CARDITIS LENTA." KUYBYSHEV, 1961. (MIN OF HEALTH RSFSR. KUYBYSHEV STATE MED INST). (KL-DV, 11-61, 226). -229-





15 TRUBER AREAS 20-114-3-58/60 Andreyeva, T. F., Nal'borchik, E. Ya. On the Influence of the Physiological Condition of the Plant AUTHORS: and of Some Extraneous Effects Upon the Composition of Photosynthetic Products (K voprosu o vliyanii fiziologicheskogo TITLE sostoyaniya rasteniya i nekotorykh vneshnikh vozdeystviy na sostav produktov fotosinteza) Doklady Akademii Nauk SSSR, 1957, Vol. 114, Nr 3, pp. 662-665 (USSR) Research work of the last years led to a proof, by means of PERIODICAL: isotopic analysis and chromatographic analysis, of the forma-ABSTRACT: tion of amino acid and albumen substances during synthesis. It remained unknown, however, how large the share of these substances in the photosynthetic products was. It was unknown whether the quantity of these products changes in plants with different metabolism or in the same plant during ontogenesis under the influence of extraneous agents. There exist data on a differing distribution of carbon, which had been assimilated during different substance fractions, and in dependence on the type plant as well as on photosynthetic conditions. The of Card 1/3

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20-114-3-58/60 On the Influence of the Physiological Condition of the Plant and of Some Extraneous Effects Upon the Composition of Photosynthetic Products authors of the paper under review had the intention of following the participation of photosynthetic carbon in the formaamino acids, albumen substances and carbohydrates tion of under different physiological conditions as well as at changes in extraneous factors of the environment. Beans (Phaseolus) and peasant tobacco (Nicotiana rustica) were used in these experiments: cut-off leaves or leaf sectors, leaves still connected with the plant, under light or in the dark, were used as test material. On the day before the experiment, a solution of 1 % of $(N^{15}H_4)_2SO_4$ with heavy nitrogen, ten times enriched, was introduced through the root, Radioactive carbon dioxide was introduced into the leaves. These are the results of the experiments: Under natural conditions of growth the formation of amino acids and of albumen substances takes place in the leaf during the photosynthesis. The quantitative relations in the composition of the photosynthetic products being formed (carbohydrates, albumen substances, amino acids, organic acids) vary according to the species of the plant, the age of the plant, the physiological state of the plant, and extraneous influences. The share of albumen in the pro-Card 2/3

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On the Influe Extraneous Ef	20-114-3-58/60 nce of the Physiological Condition of the Plant and of Some fects Upon the Composition of Photosynthetic Products
	ductive photosynthesis is not large and amounts to $1.5 - 4$ %. The major part of the nitrogenous photosynthetic products are the amino acids; their amount (20 - 30%) is subject to greater variations (depending on the above conditions) than is the quantity of albumen substances formed. There are 5 tables and 14 references, 7 of which are Soviet
ASSOCIATION:	Institute for Plant Physiology imeni K. A. Timiryazev AS USSR (Institut fiziologii rasteniy im. K. A. Timiryazeva Akademii nauk SSSR)
PRESENTED:	March 5, 1957, by A. L. Kursanov, Member of the Academy
SUBMITTED:	February 24, 1957
Card 3/3	
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APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R001136020(

BIREGEA, H.; NALEORCZYK, Z. Biosynthesis of radio-active alkaloids of yellow and white lupine. bul Ac Fol biol 7 no.6:205-211 '59 (MAMI 9:6) 1. Department of Plant Physiology, College of Agriculture, Warsaw presented by J. Heller. (Synthesis) (Impine) (Radioactive substances) (Alkaloids)

BIRECKA, H.; MALBORCZYK, E.; SEBYLA, T.
Biogrammetry of alkaloids in intact and derooted plants of yellow lupine. Bul Ac Pol biol 8 no.5:175-181 '60. (EEAI 9:11)
1. Department of Plant Physiology, College of Agriculture, Warsaw and Laboratory of Plant Physiology, Institute of Soil Management and Fertilization, Warsaw. Presented by J.Heller. (LUPINES) (ALKALOIDS)

EX SELECTION

BIRECKA, H.; NALBOPCZYK, E.

Separation of white lupin alkaloids and attempts of identification of some of them. Bul Ac Pol biol 9 no.10:401-408 '61.

1. Department of Plant Physiology, Central College of Agriculture, Warsaw. Presented by J. Heller. (Redacteur de la Serie des Sciences Biologiques).

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MAGAKYAN, A.; TONOYAN, A.; NALCHADZHYAN, F. Technological processes and th output of Swiss cheese. Prom.Arm. 6 no.10:33-36 0 63. (MIRA (MIRA 17:1) 1. TSentral'naya nauchno-issledovatel'skaya laboratoriya Upravleniya myasomolochnoy promyshlennosti Soveta narodnogo khozyuyutva ArmSSR.

		SOURCE CODE	UR/0217/65/010/001/0167/	0168
	Vanin, A. F.; Nalbandy			
ORG: Ind AN SSSR)	titute of Chemical Phy	rsics, AN SSSR, Moscow	(Institut khimicheskoy fiz	iki
PITLE: H	ree radicals of a new	type in yeast cells		32
SOURCE:	Biofizika, v. 10, no. S: yeast, free radica	1, 1965, 167-168 22		B
as an in actor of 0 ² spins nd the r ignal was	completely resolved do 2.03 at the absorption per call of Saccharomy dation between the int due to the presence of t a sulfur atom. (The	ublet with a half-width n maximum, and an inter YCes Cerevisiae. The n Lensity and the tempera of organic free radical	agnitude of the g factor ture indicated that the	
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NALCHADZHYAH, S.O. Corresion mechanism of iron and carbon electrodes in electric furnaces used for glass melting, Inv. AN Arm. SSR Ser. FMET mauk 9 no.10:3-12 '56. (MLRA 10 (MIRA 10:4) 1. Thimicheskiy institut AN Armyanskey SSR. (Glass furnaces) (Electrolytic corrosion) ^نېز. ۰. THE REPORT OF THE PROPERTY OF T 1 . .





NALCHADZHYAN, S. O., Cand of Chem Sci -- (diss)" Investigation of the nature of corrosion of steel and carbon electrodes of electric furnaces of var glass." Yerevam 1957, 23 pp (Chemical Institute, Academy of Sciences Armenian SSR) 150 copies (KL, 33-57, 87)





NALCHADZHYAN, S.O., Xx Doc Chem Sci -- (diss) "Study of the nature of the corrosion of steel and carbon electrodes furgues for the proparation of glass." Mos, 1958, 23 pp with illustrations (Min of Higher "ducation USSR. Mos Order of Lenin Chem-Technologic"Inst im D.I. Mendeleyev) 120 copies (KL, 29-58, 128)

CONTRACTORY DESCRIPTION

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MANVELYAN, M.G.; MELIK-AKHHAZARYAN, A.F.; KOSTANYAN, K.A.; MALCHADZHYAN, S.O.; IERIZINAYAN, Y.G.A.; OGAMESYAN, S.T. Passage of grog matorials inot glass batch during electric founding of bulb glass. Izv. AN Arm.SSR. Ser.tekhn.nauk 11 no.4:51-69 '58. (Glass manufacturo)

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MANYELIAN, M.G.; MELIK-AKHNAZARYAN, A.F.; KOSTANYAN, K.A.; MALCHADZHYAN, S.G.; HERZMKYAN, Te.A. Deterioration of electrodes in electric glass furnaces. Isv. AN Arm.SSR. Ser.tekh.nauk 11 no.5:69-70 '58. (MIRA 11:11) 1. Khimicheskiy institut AN ArmSSR. (Glass furnaces) (Slectrodes)



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YENIKEYEV, Kh.M.; KOZLOV, D.N.; KRUZHILIN, M.P.; MEZHUYEV, B.N.; NALCHAN, A.G.; NIKULIN, A.I.; PANKIN, V.A.; SHAVIN, G.F.; LESNICHENKO, I.I., red. izd-va; SMIRNOVA, G.V., tekhn. red [Metal-cutting machines; kinematic adjustment of metalcutting machines] Metallorezhushchie stanki; kinematicheskaia nastroika metallorezhushchikh stankov. Pod red. A.G. Nalchana. (MIRA 16:2) Moskva, Mashgiz, 1962. 179 p. 1. Moscow. Vsesoyuznyy zaochnyy mashinostroitel'nyy institut. Kafedra "Metallorezhushchie stanki i instrumenty." 2. Prepodavateli kafedry "Metallorezhushchiye stanki i instrumenty" Vsesoyuznogo Zaochnogo Mashinostroitel'nogo instituta (for all except Lesnichenko, Smirnova). (Metal cutting) (Machinery, Kinematics of)





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An evaluation of all known methods of measurement has demonstrated that for the measurement of magnetic field in the gap of an electromagnet the most convenient method is that of immobile coil connected with a galvanometer reacting to the field changes caused by: switching in and out of the magnetizing current, while for the measurement of earth's field (up to 10-3 oersted) any method can be employed which ensures an adequate value of the minimum measuring range. From the point of view of obtaining very low measuring ranges, the most suitable methods at present are the modern ones based on saturated double-core or bridge type testing gauges, which make it possible to obtain at a supply frequency of 50 cycles a sensitivity of 1 millioersted per scale division. This range can be further lowered by increasing the frequency, which, however, considerably puts up the cost of instruments because in this case it is necossary to use an Luii. بيعيه ادادا الالعابيفة سياد العرود الوارسيس والرس بعسابهم

acoustic generator, filters and an amplifier. Moreover, the saturated testing gauge method is the most suitable for testing the properties of magnetic materials because of the reduced time of measurement, high sensitivity and small dimensions of the testing gauge.

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-POLAND / Chemical Technology. Chemical Products and Η Their Applications. Electrochemical Industries. Electroplating. Galvanic Cells. Abs Jour: Ref Zhur-Khimiya, 1959, No 4, 12423. Author : Nowacki, Pawel; Gorski, Andrzej; Malecz, Macicj. : Not given. Inst ; Fuel Elements. Title Orig Pub: Rozpr. elektrotechn., 1958, 4, No 1, 53-67. Abstract: A scheme for fuel-element function is cited as well as a classification of these elements based on the difference in their source of emf (direct and indirect reaction), type of electrolyte (liquid, condensed gas, solution of fused salt), aggregate con-dition of fuel, conditions of temperature and pres-sure. Known oxyhydrogen elements are described (of Davtyan, Bacon), and forecasts of their development are indicated. -- From the authors' resume. Card 1/1 29



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21669 P/021/60/000/011/003/006 A107/A126
Magnetic induction meter using the Hall effect
Siving the characteristics of the sensor: size 6 x 12 x 0.27 mm; resistance of steering electrodes, R = 140.5Ω; resistance of Hall electrodes, R = 57Ω; permanent Hall unit, R' = 0.115 mva 0s; proper resistance, Q = 2.2Ω tim and maximum steering, I = 35 ma. In the second part of the article 3 foreign magnetic induction metërs [Dr. Förster, Reutlingen, Germany; Siemens-Halske, Germany and Thomson-Houston, USA] are desoribed. There are 9 figures and 1 Soviet-bloc reference.
ASSOCIATION: Zaklad Elektrotechniki, IPPT PAN (Electrical Engineering Depart. ment of the IPPN PAN)

THE REPORT OF A PROPERTY OF A S/194/61/000/011/002/070 D256/D302 9,6130 Kulikowski, Jan and Nalecz, Maciej_ AUTHORS: Basic properties of magnetic field modulated trans-TITLE: ducers Referativnyy zhurnal. Avtomatika i radioelektronika, PERIODICAL: no. 11, 1961, 5, abstract 11 A32 (Rozpr. elektrotechn., 1960, 6, no. 4, 475-492 (in Polish; English summary)) An analysis is presented of a transducer performance 💋 in measurements of weak magnetic fields. A linear approximation of TEXT: the core magnetization curve was assumed and the sum of the even harmonics in the measuring windings emf was employed as the output quantity. Expressions were derived for calculating the mean value of the transducer output voltage, sensitivity and the dependence of the useful range of measurements upon the geometrical dimensions of the core. A description is given of a transducer measuring system with Card 1/2

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Card 2/2

35402 P/026/62/010/001/001/002 9.4370 (1043,1137) D218/D304 AUTHORS: Nalecz, Maciej and Zawicki, Ignacy Application of the Hall effect to seismographic recording TITLE: PERIODICAL: Acta geophysical polonica, v. 10, no. 1, 13-24 TEXT: It is shown that by placing a Hall plate in a nonuniform magnetic field it is possible to obtain a Hall emf which is proportional to the displacement of the plate in a given direction. The region of proportionality is limited, but sufficient for practical purposes. The magnet employed by the authors is illustrated schematically in Fig. 2. In this field configuration, the Hall emf is approximately given by Eq. 2 . $U_{\rm H} = \frac{R_{\rm H}}{b \cdot d} \cdot I_{\rm p} \cdot B \cdot X \cdot 10^{-8}$ where d is the thickness of the plate, b its breadth, I_p - the current flowing through it, B - the magnetic flux density, R_H - Hall's constant, and X - displacement. In an actual seismograph, the plate is attached to the end of a Card 1/3

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P/026/62/010/001/001/002 D218/D304

Application of the Hall ...

long rod of a suitable moment of inertia which is spring-loaded at one end and can rotate about an axis attached to a heavy base. The Hall emf is recorded by a moving-coil galvanometer, whose response can be traced out on photographic paper: Polish CH1 Hall plates were employed (12 x 6 x 0.25 mm³; G_{2} , $R_{\rm H}$ = 2500 cm³/coulomb). The equations of motion of the system have been solved and the results are reported and compared with those for the electrodynamic seismograph. The Hall-plate seismograph gives a higher magnification (by a factor of up to 100) and falls off more slowly with frequency. It is shown that the combination of a Hall date and a non-uniform magnetic field can be used to measure any quantity which has a linear displacement associated with it. The authors have constructed a strain gauge and an inclinometer based on this principle. Professor Stefan Manczarski, Director of the Zaklad geofizyki PAN (Geophysics Institute PAS) and Docent Doctor Roman Teisseyre are thanked for their interest and advice. There are 12 figures and 3 references: 1 Soviet-bloc and 2 non-Soviet-bloc. The references to the English-language publications read as follows: M. Natecz, Electronic Technology, Jan. 1961; J.L. Bower,

Card 2/3

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NALECZ, MACIEJ	
RNAME, Given Names	•
Country: POLAND	$\langle \rangle$
Academic Degrees: / not given/	
Affiliation: / not given /	
Source: Warsaw, Rozprawy Elektr	<u>ptechniczne</u> , Vol VII, No 2, 1961, pp 277-288
•	Flux-Gate Magnebometers with all-even Harmonic Output"
Authors: KULIKOWSKI, Jan	
Authors	
Authors: KULIKOWSKI, Jan	

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R001136020(

 $r_{2,1} = r_2 \frac{\pi}{N}$ 31469 P/019/61/010/004/006/006 9,2120 D265/D303 M. Nałęcz AUTHOR: Vector diagram of a current transformer with Wilson com-TITLE: pensation Archiwum elektrotechniki, v. 10, no. 4, 1961, 903 - 923 PERIODICAL: The experimental methods of finding the physical parame-TEXT: ters of the compensating transformer winding are replaced by an analytical treatment based on vector diagrams and the fundamental frequency method of calculating complex magnetic circuits devised by P.J. Nowacki (Ref. 5: Arch. Elektr. v. 6, no. 3, 1957, 441 - 459). Neglecting the leakage flux, a set of equations is obtained for the transformer flux, voltages and magnetizing forces for a system shown in Fig. 1. After transformation, the final two equations are obtained $\hat{\mathbf{K}}\hat{\mathbf{\Theta}}_{\mathbf{a}} = \hat{\mathbf{a}}^{"}\hat{\mathbf{B}}_{\mathbf{a}} + \hat{\mathbf{b}}^{"}\hat{\mathbf{B}}_{\mathbf{b}}$ (17)Card $1/\frac{1}{\sqrt{2}}$ $\hat{\Theta}_{a} = \hat{U}_{a} - \hat{U}_{b}$ (3)

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311.69 P/019/61/010/004/006/006 Vector diagram of a ... D265/D303 which are solved by means of vector diagrams. The construction of these vector diagrams is described for two cases: 1) Neglecting the iron losses 2) taking the iron losses into account. A numerical example is given for the JT10 transformer. There are 9 figures and 11 references: 7 Soviet-bloc and 4 non-Soviet-bloc. The references to the English-language publications read as follows: B. Hague, "Instrument transformers", I. Pitman, London 1936; M.S. Wilson, "A new high accuracy current transformer", AIEE Transaction July 1929, 783 - 789; ibid, AIEE Journal, 1929, v. 48, 179 - 182. ASSOCIATION: Katedra Miernictwa elektrycznego politechniki Warszawskiej zakład elektrotechniki I.P.P.T. PAN (Department of Electrical Metrology, Warsaw Polytechnic Electrotechnical Enterprise, I.P.P.T. PAS) SUBMITTED: October 17, 1960 Card 2/3 2

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REMARKS POWER POWER STREAM STREAM POWER STREAM

Sherarathi Hematokalar Artania 1 NALECZ, Maciej; ZAWICKI, Ignacy Utilization of the Hall effect in seismographic recordings. Acta geophys pol 10 nc .1:13-24 '62. 1. Zaklad Elektrotechniki, Instytut Podstawowych Problemow Techniki, Polska Akademia Nauk, Warszawa.

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R001136 CIA-RDP86-00513R001136020

	S/169/63/000/003/037/042 D263/D307
AUTHORS :	Nalecz, Maciej and Zawicki, Ignacy
TITLE:	A seismograph
PERIODICAL:	Referativnyy zhurnal. Geofizika, no. 3, 1963, 11, abstract 3G51 (Sejsmograf (Polska Akademia nauk (Instytut Podstawowych Problemów Techniki)) Pol'sk.
TEXT:	Pat. No. 45689, 5.03.62) A scismograph is proposed, based on the use of a
show schematica systems, causin acting on the p plate on the la system. The pr	a mechanical quantity into electrical. The authors ally the shift of a Hall element in various magnetic a change in the mean value of magnetic induction late. Dependence of the voltage originating in the atter's shift is shown graphically for each magnetic
auxiliary curre	mer is given. The Hall elements are supplied with nt from batteries of a few volts, included in series
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"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R001136020 S/169/63/000/003/037/042 D263/D307 A seismograph with variable resistance which allows a control of the sensitivity of the seismograph. The instrument is damped electromagnetically, with a coil moving in a magnetic field and connected to the corresponding resistance. Main features of the seismograph arc its high sensitivity, independence of Hall voltage of the frequency of oscillation, absence of a back-action of the galvanometer on the move-ment of the seismometer pendulum, simple control of sensitivity by changing the auxiliary current, and the possibility of determining the inclinations of the Earth's crust. [Abstracter's note: Complete translation] 1.... Card 2/2

NALECZ, Maciej				
м. н	Pawel Jan Nowacki. Nauka polska 11 no.2:59-62 Mr-Ap '63.			
	1. Instytut Automatyki, Polska Akademia Nauk, Warszawa.			



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NALECZ, M.

Mechanism of error compensation in a current transformer by using the Wilson method. Archiw elektrotech 12 no.2:287-334 '63.

l. Katedra Miernictwa Elektrycznego, Politechnika, Warszawa, i Instytut Automatyki, Polska Akademia Nauk, Warszawa.

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NALECZ, Magiej, professor

Transformer and the second states and

The Polish '-idemy of Sciences Institute of Automatic Control; state of work and development trends. Review Pol Academy 9 no.4: 22-26 O-D '64.

1. Director, Institute of Automatic Control of the Polish Academy of Sciences, Warsaw. Submitted May 1964.

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以及出电导和非常用的中国的的活动

Author: Nalecz, Maciej (Professor, Doctor	SOURCE CODE: PO/0034/66/000/08-/0393/0394
ORG: Institute for Automatic and	, wygmune L. (Aaster engineer)
Institute (Politechnika Warszawska)	tut Automatyki PAN); Warsaw Polytechnic
TITLE: The use of Hall effect devices in a	closed loop displacement transducers
SOURCE: Pomiary, automatyka, kontrola, no.	. 8-9, 1966, 393-394
COPIC TAGS: Hall effect application, halot bechanical measurement and a second of the BSTRACT: The article deals with the gener echanical displacements through readings of ice located in a high-gradient magnetic fi roving the limiting characteristics of sim eviewed. The principal disadvantage here rimary cause of inaccuracy and nonlinearity hat the halotron displacement sensor (detect agnet already present in the transducer (for create the magnetic induction gradient. th induction compensation is discussed. The described and the error, which in a funct rd 1/2	al problem of the measurement of small of the output voltage of a Hall effect de- eld. The difficulties encountered in im- ple transducers without an amplifier are is the Hall effect device itself, as the y. On the other hand, it is also found ctor) is useful only when the permanent or feedback) is simultaneously employed

÷. ACC NR AP6034963 field delivered by the magnets as well as the uniformity and single-valuedness of the electromagnetic field, is analyzed. Orig. art. has: 2 formulas and 1 figure. SUEM DATE: none/ ORIG REF: 001/ SOV REF: 001/ OTH REF: 001 SUB CODE: 09/ 2/ Card