"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447310002-9

SAULE, S.

SCIENCE

Periodical: GLASHIK, Vol. 20, no. 7, 1955.

SAULE, S.; IVKOVIC, V. Determination of gold in the presence of copper and cadmium. p. 465.

Monthly List of East European Accessions (FEAI) LC, VOL. 8, no. 3 March 1959 Unclass.

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SAULEBEKOVA, M. S., Candidate of Hedical Sciences, and ZIKEYEVA, A. I.

"Substitution of the Blood of the Donor for the Blood of the Recipient as a Therapeutic Method in Mercuric Chloride ^Poisoning," a report presented at the First Conference of Pathologists of Central Asia and Kazakhstan held in Stalingrad, 12-15 Feb 1955, Ark. Patol., 17, No 3, pp 83-87, 1955

Abstract Sum. 1003, 20 Jul 56

APPROVED FOR RELEASE: 07/13/2001





APPROVED FOR RELEASE: 07/13/2001

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SAULESCU, N.

Cynegetic reservations in Russia. p; 194, (Ocrotirea Naturil, No. 2, 1956, Bucuresti, Humania)

SO: Monthly List of East European Accessions (EEAL) Lc. Vol. 6, No. 8, Aug 1957. Uncl.

APPROVED FOR RELEASE: 07/13/2001

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447310002-9

EAULESCU M. M-1+ COUFERY : Rumania CAT DOORY : ASS. JOUR. : RZBiol., No. 19, 1958, No. 86957 : Saulescu, N. AUTHOR 1957. F12LC : Winter Wheat Improvement Prospects CALL, PUB. : Probl. agric., 1958, 10, No 2, 57-61 AUGURACI : No abstract. CARD: 1/1



APPROVED FOR RELEASE: 07/13/2001



APPROVED FOR RELEASE: 07/13/2001

SAULEA, Emilia

Results of Professor Ion Anastasiu's investigations on the earthquakes and seismic sensitiveness of the territory of Rumania with a seismotectonic intepretation. Studii astron seismol 6 no.2:297-313 !61.

APPROVED FOR RELEASE: 07/13/2001

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CIA-RDP86-00513R001447310002-9

s/169/62/000/009/011/120 D228/D307 Saulea, Emilia AUTHOR: Results of Professor I. Atanasiu's research on past TITLE: earthquakes on Rumanian territory and on seismologic interpretation Referativnyy zhurnal, Geofizika, no. 9, 1962, 20, ab-stract 9A127 (Studii și cercetări astron. și seismol., 6, no. 2, 1961, 297-313 (Rum.; summaries in Russ. and PERIODICAL: Fr.)) TEXT: Professor I. Atanasiu's work "Earthquakes in Rumania", which was published in 1959, is a monograph on seismology. The work considers the question of the basement's structure from a geologic viewpoint. It can be readily noticed on the composite map of seismic elements that most seismic lines are located discordantly with respect to the tectonics of the surface cover. They are considered to reflect the basement's structure. In its general features the aggregate of these seismic lines contours the major tasement units Card 1/3

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Results of .rofessor Atanasiu's ...

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and their main structural lines. Thus, the unit of the Podolian Platform stands out at the country's north-eastern extremity . Here the line Dorohoi-Botosan records the degree of the platform's subsidence in front of the Carpathians. The western half of Rumania's territory is occupied by a unit of a crystalline rock mass, in which the line Bîrsa (Sibiu-Meşendorf) records the edge of the area submerged beneath the Transylvánian Depression's deposits, while the line Gura-Tisei-Arad-Oradia outlines the subsidence under the Pannon Depression's deposits. A Dobrudjan Cimmerian unit, which continues to the nor i-west where it is located between the first two units, is situated in the country's southern part. Two important areas separated by the lines Urlati-Tolsani-Urziceni-Lehliu stand out within this unit. The western area continues to the south of Dunaia and forms the Nizii region. The eastern section is separated into two blocks, of which the block situated in the southeast forms the largest part of the Dobrudja. The second block, i.e. the north-western part of this area, sinks northwards and north-westwards under the Flysch strata of the geosyncline and the piedmont trough of the Carpathians. Ion Atanasiu reckons that the mobi-

and the second second

Card 2/3

SAULEBEKOV, 0.

How we improve work. Den. i kred. 20 no.7:25-27 Jl '62. (MIRA 15:7)

1. Nachal'nik gorodskogo upravleniya Karagandinskoy oblastnoy kontory Gosbanka.

(Karaganda Province--Finance)

DAITRIYEV, C y belansirnoy pily; SAULENKO, Yn.; KARZEE, G.;

When I have costbillity. Other truin i sote. strath. 4 no. Salde 27 Lg 161. TA U:11)

1. Caster less Inveliskogo lesopromyshlennigo khozyajetva (200 Saulosito). 2. Sotradnik Arkhangel'skoy of astnoy gazety "Pravda Severa" (for Kerzin). 3. Spetchallayy housespondent shuroof "Chivana truda i setzial taking alay ", (Second 1) (Archangel Travinge of nate ' measures) (Arelengel Traziner al nete

SAULESCU, C., ing.

171 6 416

"Electric machines" by [prof. dr. ing.] Rudolf Richter. Reviewed by C. Saulescu. Electrotehnica 10 no.5:182-184 My '62.

APPROVED FOR RELEASE: 07/13/2001

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SAULESCU, C., ing.

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"Electrical and electronic apparatus in industrial laboratories" by E. Pasere, Gh. Barbulescu. Reviewed by C. Saulescu. Electrotehnica 10 no.7:274-275 Jl ⁶62.

SAULESCU, C.

بالابتداري المتنابية بالمنتزع بترابي الترابية التراب

"Electric machines" by Rudolf Richter. Vol.1-5. Reviewed by C. Saulescu. Metalurgia construes 14 no.9:853-854 S '62.

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31059-66	SOURCE CODE:	RU/0005/65/000/010/0	417/0419
ACC NR: AP6022014	- · · ·		18
AUTHOR: Saulescu, Cristian (Engi	ineer)		\mathcal{B}
ORG: none			
TITLE: VS 59 television receive	r		•
counce. Telecomunicatii, no. 10), 1965, 417-419		
SUURGE. TOTOTOTOT		4 100 3	
TOPIC TAGS: circuit design, TV	receiver/VS 59 TV rece	ver, a standard super	heterodyne
TOPIC TAGS: circuit design, TV ABSTRACT: A description of the medium-class receiver. Technics the operation of the set are inc	receiver/VS 59 TV receiver/VS 59 TV receiver/VS 59 televition received all specifications, a which are in the specification of the spec	ver, a scance and a su	heterodyne mary of
TOPIC TAGS: circuit design, TV	receiver/VS 59 TV receiver/VS 59 TV receiver/VS 59 televition received all specifications, a which are in the specification of the spec	ver, a scance and a su	heterodyne mary of
TOPIC TAGS: circuit design, TV ABSTRACT: A description of the medium-class receiver. Technics the operation of the set are inc	receiver/VS 59 TV receiver/VS 59 TV receiver/VS 59 televition received all specifications, a which are in the specification of the spec	ver, a scance and a su	heterodyne mary of
TOPIC TAGS: circuit design, TV ABSTRACT: A description of the medium-class receiver. Technics the operation of the set are inc	receiver/VS 59 TV receiver/VS 59 TV receiver/VS 59 televition received all specifications, a which are in the specification of the spec	ver, a scance and a su	heterodyne mary of
TOPIC TAGS: circuit design, TV ABSTRACT: A description of the medium-class receiver. Technics the operation of the set are inc	receiver/VS 59 TV receiver/VS 59 TV receiver/VS 59 televition received all specifications, a which are in the specification of the spec	ver, a scance and a su	heterodyne mary of

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Particularities and problems on coated paper processing. Cel hirtie 12 no.2:65-69 F'63.

SAULESCU, F., ing.

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Considerations on newsprint. Cel hirtie 12 no.5/6:193-197 My-Je*63.

SAULIN, A.S., kand.tekhn.nauk

Effect of geometrical defects in assembly on the redistribution of internal forces in the steel frame of a cooling tomer. Prom. (MIRA 15:12) stroi. no.10:54 '62. (Cooling towers) (Steel, Structural)

APPROVED FOR RELEASE: 07/13/2001

"APPROVED FOR RELEASE: 07/13/2001

s/138/60/000/008/007/015 A051/A029

Gilyazetdinov, L.P.; Zuyev, V.P.; Livshitz, F.B.; Saulina, V.V. AUTHORS:

TITLE:

The Production of Low-Module Furnace Carbon Blacks From Liquid Shale Raw Material

PERIODICAL: Kauchuk i Rezina, 1960, No. 8, pp. 32 - 35

The effect of the chemical composition of the raw material on the TEXT: properties of the carbon black was studied on shale cil, shale softener and its mixtures with green oil. The experimental procedure for the production of furnace carbon black with an output capacity of 20kg/h was described in Refs. 1,2. The content of oxygen and oxygen-containing compounds in the liquid shale raw material is 10.9 and 77.8%, respectively, which is a significant difference from green cil. It was established that with an equal specific surface the carbon black produced from shale raw material has significantly lower oil numbers than carbon blacks from green oil. Rubbers containing carbon blacks derived from a shale softener and its mixtures with green oil are close to rubbers with gaseous channel carbon black in their physico-mechanical properties. The carbon blacks from shale raw material produce rubbers with low modulae and high relative elongations. Tests were carried out on semi-active and active carbon blacks and it was noted that the

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CIA-RDP86-00513R001447310002-9

S/138/60/000/008/007/015 A051/A029

The Production of Lower-Module Furnace Carbon Blacks From Liquid Shale Raw Material

vulcanizates of the standard mixtures based on CK5(SKB), CWC-30 AM (SKS-30AM) containing shale carbon black had low modulae at high values of the tenacity limit and the specific elongation. With an increase of the shale softener in the initial raw material, the tensile strength changes within the limits of 220 - 257 kg/sm², whereas in modulae with 300% the elongation and specific elongations are equal to 130 - 56 kg/cm² and 470 - 667%, respectively. The low structuralization of the carbon blacks produced from shale raw material and the low modulae of the oxygen organically bound with a raw material molecule on the formation process of the shale softener can be applied as raw material to the production of special low-module carbon blacks or as a component part of raw material, which gives the carbon black a low structuralization with a wide variety of properties.

ASSOCIATION: Nauchno-issledowatel'skiy institut shinnoy promyshlennosti (Scientific Research Institute of the Tire Industry)

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13665-63	EWF(j)/EWT(m)/EDS AP3001431	AFFTC/ASD Pc-4 S/0138/63/00	00/004/0025/0021	69
	Tu.P.; Cilyazetdi	rov, L. P.; Zu	ev; V. F.; Sauli	ne,
17				
TLE: The ma	nufacture of low-s	tructurated ac	tive furnace car	bon
orrece. Kauch	uk i rezina, no. 4	, 1963, 25-27		
OPIC TAGS: of einforcing fi BSTRACT: The rocess induce ispersed, low	arbon black, carbo ller blow yield of <u>car</u> ed the authors to a w-structurated act:	on black furnad <u>oon black</u> obtain attempt the pro- lve carbon black possess outsta	ned by the chann duction of a high-aron anding properties	nel ghly natic s as a sary to
construct a s	pecial furnace whi	ch would permit complete combi		lected eactor
rude 'oil mate einforcing; f: construct a s	iller in rubber go pecial furnace whi	ods. To this the would permit complete combined	t a more thorough istion of the se	h lect eact

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i -	L 13665-63 ACCESSION NR: AP30014:11	
	into which the oil-air mixture and 0.2-0.5% water were injected by nozzle. The subsequent combustion and thermic decomposition took 100-180C, the temperature within the furnace was within the 1200- 1300C range, and the pressure amounted to 0.15-0.20 atm. The re- sulting carbon black-gas mixture was cooled to 400C by water spray. The yield of carbon black amounted to 24.2-45.4%, with a specific carbon black as reinforcing filler showed it to be equal in tensile strength and superior in abrasion to that with channel carbon black.	
	ASSOCIATION: Nauchno-issledovatel'skly institut shinnoy promy*shlen- nosti (Scientific Research Institute of the Tire Industry)	
	SUBMITTED: 00 DATE ACQ: 30May63 ENCL: 00	
	SUB CODE: 00 NO REF SOV: 004 OTHER: 005	
	Card_2/2	

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447310002-9"

ZUYEV, V.P.; GILYAZETDINOV, L.P.; GYUL'MISARYAN, T.G.; EERNSHTEYN, I.D.; SAULINA, V.V.; MAGARIL, R.Z.; SEREBRYANOV, K.F.; BORSHCHEV, B.S. Extracts of catalytic gas oils as raw stock for the production of furnace black. Khim. i tekh. topl. i masel 9 no.12:6-11 D '64. (MIRA 18:2) 1. Nauchno-issledovatel'skiy institut shinnoy promyshlennosti, Omskiy naucho-issledovatel'skiy konstruktorskogo-tekhnologicheskiy institut shinnoy promyshlennosti, Omskiy sazhevyy zavod i Kudinovskiy sazhevyy zavod.

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L 35067-65 EWT(m)/EWP(j)/I/ ACCESSION NR: AP5008527	EWP(t)/EWP(b) Рс-4 Т.J?(S,	(c) J}/RW /0286/65/000/006/0034/0034
AUTHOR: Shil'man, Ya. M.; Ver Vavul, A. Ya.	elyubskiy, S. B.; Alenina.	
TITLE: A method for producin	g modified <u>carbon black.</u> (自己的自己的意思。 第二十二章
SOURCE: Byulleten' izobreten	iy i tovarnykh znakov, no.	6, 1965, 34
TOPIC TAGS: carbon black		
ABSTRACT: This Author's Cert carbon black by introducing a ture of gas and carbon. The selection of raw materials is metals in group VI of the per-	lmixtures to a liquid hydro quality of the carbon black provided by using organic	carbon stock or to a mix- gis improved and a wider
ASSOCIATION: Nauchno-issledo tific Research Institute of t	atel'skiy institut shinnoy ne Tire Industry)	promyshlennosti <u>(Scien-</u>
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"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447310002-9
POZHELA, Yu.K. [Pozela, J.]; SAULIS, A.A. [Saulis,A.]
Injection and drift of great concentrations of minority carriers in
germanium. Liet ak darbai B no.2:83-92 '60. (BEAI 10:1)
1. Institut fiziki i matematiki Akademii nauk Litovskoy SSR
(Germanium) (Semiconductors) (Telephone)

APPROVED FOR RELEASE: 07/13/2001

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SAULIT, V.I.; TUL'SKAYA, N.M., otv.red.; SHALGIN, G.N., nauchno-tekhn.red. ANTOSYAK, N.N., red.; SEMENOVA, A.V., tekhn.red.

[Internal potentials in machinery plants; index of literature] Vnutrennie rezervy na mashinostroitel'nom predpriiatii; ukazatel' literatury. Leningrad, TSentral'noe biuro tekhn.informatsii, (HIRA 13:4) 1959. 47 р.

1. TSentral'naya nauchno-tekhnicheskaya biblioteka. (Bibliography--Mechanical engineering)

APPROVED FOR RELEASE: 07/13/2001

541	JLI	τ, ν
USSR/Nucle	ar	Physics - Beta-spectrometers
Card 1/1	P	ub. 43 - 6/97
Authors	:	Saulit, V. R.
Title	8	Analytical finding of trajectories of cha ged particles in magnetic fields of axial symmetry utilized in modern beta-spectrometers
Periodical		Izv. AN SSSR. Ser. fiz. 18/2, 227-232, Mar-Apr 1954
Abstract		The problem of analytically finding the trajectories of charged particles moving in magnetic fields of axial symmetry of a present day beta-spec- trometer are discussed. In order to find a solution to this problem, it was necessary to compute equations of trajectories for a wide spatial pencil of electrons and to determine the optimum fields which realize the focusing of the source. Considerations were given only to trajectories which lie in the plane of the mirror symmetry. The results obtained are described in detail. Eight references: I USSR; 2 Dutch; 1 German; 4 USA (1941-1954).
Institution	:	The A. A. Zhdanov State University, Leningrad
Submitted	:	March 11, 1954
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USSR/Nucle	ar Physics - Magnetic fields
Oard 1/1	Pub. 43 - 7/97
Authors	: Saulit, V. R.
Title	Focusing of a plane pencil of charged particles with a magnetic field alter- nating along one of the Descartes coordinates
Periodical	
	· · · · · · · · · · · · · · · · · · ·
Abstract	* A solution is presented to the problem of finding analytical expressions for magnetic fields which realize an accurate focusing of plane wide-pencils of charged particles at an arbitrarily fixed form of an optical axis. A case is considered when the magnetic field in the plane of the mirror symmetry depends only upon one Descartes coordinate. The magnetic field in the space adjoining the plane of the mirror symmetry was determined by the function of the field in this given plane. The problem of producing ion- and electron-optical systems which would make it possible to realize the focus- ing of wide spatial pencils of charged particles in better approximations than before is considered. Eight references: 4 USSR; 2 French; 1 German and 1 USA (1911-1954). Graphs; drawing.
nstitution	charged particles at an arbitrarily fixed form of an optical axis. A case is considered when the magnetic field in the plane of the mirror symmetry depends only upon one Descartes coordinate. The magnetic field in the space adjoining the plane of the mirror symmetry was determined by the function of the field in this given plane. The problem of producing ion- and electron-optical systems which would make it possible to realize the focus- than before is considered. Fight references 4 USCB 2 a proximations

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SAULIT, V.R. Category : USSR/Nuclear Physics - Instruments and Installations. Methods C-2 of Measurement and Investigation. Abs Jour : Ref Zhur - Fizika, No 2, 1957 No 2998 Author : Saulit, V.R. Inst : Leningrad State University Title : Certain Addenda to the Article "On the Problem of Focusing a Flat Beam of Charged Particles by a Magnetic Field that Varies Along a Single Rectangular Coordinate." Orig Pub : Izv. AN SSSR, ser. fiz. 1956, 20, No 3, 374-376 Abstract : In the author's article (Referat. Zh. Fizika, 1955, 21104) a particluar suggestion was made concerning expanding the function f (μ) into a series. In this addendum, the integral equation is solved for under a more general assumption concerning the function f (μ). In addition, a general equation, not given previously, is now presented for finding the coefficients of the series expansion of f* (μ). Card : 1/1

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"APPROVED FOR RELEASE: 07/13/2001 CIA

SAULIT. Vitaliy Reyngol'dovich; PADALKO, Viktoriya Yur'yevna; IL'INA, M.Ye., red.; VODOLAGINA, S.D., tekhn.red.

[How to prepare for entrance examinations to institutions of higher learning; physics] Kak gotovit'sia k priemnym eksamenam v VUZ; fizika. Leningrad, Izd-vo Leningr.univ., 1960. 261 p. (MIRA 13:7)

(Universities and colleges-Entrance requirements) (Physics--Problems, exercises, etc.)

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54.23 AUTHOR:	68918 Saulit, V. R. B013/B007
TITLE:	A New Method of Calculating Magnetic Fields, Which Cause Focusing of High Order
PRRIODICAL	Vestnik Leningradskogo universiteta. Seriya fiziki i khimii, 1960, Nr 1, pp 33-40 (USSR)
ABSTRACT : Card 1/4	First, the earlier papers by M. I. Korsunskiy, V. Kel'man, and B. Petrov (Ref 1), B. S. Dzhelepov and A. A. Bashilow (Ref 2), and P. P. Pavinskiy (Ref 3) are mentioned. The method of determining the magnetic field for high order focusing, which was developed in an earlier paper by the present author (Ref 4), has the disadvantage that the calculated fields are determined by joining two fields. Here, the problem of the rational selection of the axial trajectory, or, which is the same thing, selection of the principal field, whose focusing properties must be improved, arises. However, the aforementioned earlier paper by the author solves only the second part of the problem, viz. the improvement of focusing. The present article supplies the solution of the first part of the problem, viz. the determination of the magnetic fields with continuous derivatives, which cause the focusing of an arbitrarily high order. These conditions are then dealt
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	Method of Calculating Magnetic Fields, Which Focusing of High Order	S/054/60/000/01/005/022 B013/B007
	with in the second part of the paper. the trajectories of the particles will line $y = 0$ (on which the source of the focus of the system are located) at on in some other points x_p , the position	not intersect the straight charged particles and the e and the same point but
	departure of the particle from the sou section x_p with the trajectory $y = 0$ i function of the small quantity μ , whi series with respect to powers of μ : x_p	rce. The point of inter- s considered to be a ch is expanded in a Taylor
	term of this expansion determines the of the system. $x_F - x_{FO} = \sum_{k=1}^{00} a_k \mu^k$ the	coordinate x _{PO} of the focus
	$x_{F} = x_{FO}$ gives the amount of aberration	n as a function of /4. With
Card 2	 a ≠ 1 there is no focusing whatever. I written down begins with a term contai the focusing system yields a focusing mathematical condition of n-th order f 	ning μ in the power $n + 1$, of n-th order. The

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s/054/60/000/02/03/021 B022/B007

AUTHORS:	Saulit, V. R., Unt, V. A.	
TITLE:	Inhomogeneous Magnetic Fields for the Focusing of a Divergent Beam of Charged Particles	
PERIODICAL:	Vestnik Leningradskogo universiteta. Seriya fiziki i knimi,	
depended onl	previous paper by V. R. Saulit (Ref. 1) the focusing properties geneous magnetic field, which in the mirror symmetry plane by upon a Cartesian coordinate, were investigated. The general or the ideal focusing of a plane beam of charged particles or the ideal focusing of a plane beam of charged particles of a nonlinear integral equation, the solution of	
which was f	bund. In the present paper, the class of mitcles without	

aberration and without numerical integration is shown, an carried out for a special case. The scheme of the focusing of a beam of charged particles emitted by a point source is given (Fig. 1). In Fig. 2, the results obtained by calculating the focusing magnetic field in the

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Inhomogeneous Magnetic Fields for the Focusing of S/054/60/000/02/03/021 a Divergent Beam of Charged Particles B022/B007 plane z = 0 as a function of the coordinate y ($H_0 = pc/e$) are given for comparison. The dotted line denotes the uncorrected field calculated with the aid of equation (10). The function H(y) is tabulated. The authors thank Yu. Vikharev for carrying out numerous calculations. There are 2 figures, 1 table, and 4 Soviet references. $\nu_{\rm B}$ Card 2/2

APPROVED FOR RELEASE: 07/13/2001

SAULIT, V.R. New method of calculating magnetic fields required for high-order focusing. Vest. LGU 15 no.4:33-40 '60. (MIEA 13:2) (Magnetooptics) (Electron beams) (Ion beams)

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CIA-RDP86-00513R001447310002-9"

TREADER

SAULIT, V.R.; UNT, V.A.

Inhomogeneous magnetic fields for focusing a divergent beam of charged particles. Vest.LOU 15 no.10:28-33 '60. (MIRA 13:5)

(Magnetic fields)

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CIA-RDP86-00513R001447310002-9

24064, s/054/61/000/002/002/005 B101/B217

Q4.6800AUTHORS:Zarubin, P. P., Padalko, V. Yu., Saulit, V. R.TITLE:A new B-spectrometer with triple focusing of high orderPERIODICAL:Leningradskiy Universitet. Vestnik. Seriya fiziki i khimii,
no. 2, 1961, 55-63TEXT:The aim of the present investigation was to design a spectrometer

TEXT: The aim of the present investigation was to design a open angentic which would allow for a complete analysis of *B*-processes. For a magnetic spectrometer of this type, the following requirements are made: 1) Entry of short-lived *C*-active nuclei into the target which serves a spectrometer source; 2) application of a source with a large surface; 3) analysis of *C*-particles up to at least 15 Mev; 4) resolution of at least 0.5%; 5)

aperture ratio of at least $10^{-4} - 10^{-5}$ cm² at a resolution of -0.5%; 6) least effect of scattering and -particle absorption upon measurements; 7) small detector background, 8) protection of the detector against direct radiation; 9) possibility of carrying out different correlation experiments. A multiply focused spectrometer meets all these requirements. The calculation of the potential distribution in the field of such a Card 1/9

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s/054/61/000/c02/002/005 B101/B217

A new β -spectrometer ...

spectrometer was based on the paper by P. P. Pavinskiy (Ref.4: Izv. AN SSSR, seriya fiz., <u>18</u>, 175, 1954) in which the field is written down in a parametric form: $H = H(\tau)$; $\gamma = (\tau)$, where τ is the parameter. The calculations were repeated and for the coefficient h, equations were obtained which differ from those presented in Ref.4. Teh drawing of Fig.1 is taken as basis. S is the radiation source with the polar coordinates r₀,0. The particle leaves the source at an angle α relative to the tangent. Its trajectory is determined by the function H(r). Under certain conditions, it will intersect the circle of radius r_0 . For the coordinate $F_{\rm F}$ of this point, the following is written down: Å. -1 $d_{2}(z)$

$$\varphi_{P} = \pm 2 \int_{0}^{0} \frac{\left(1 - \frac{\mu - \tau}{p(\tau)}\right) \frac{1}{p(\tau)} \frac{u_{P}(\tau)}{d\tau} d\tau}{\sqrt{1 - \left(1 - \frac{\mu - \tau}{p(\tau)}\right)^{2}}}.$$
(3)

where $u=1 - \cos \alpha$ (4). For the function $\xi(\tau)$, the following solution is Card 2/9

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 $\begin{aligned} & 2l_{10}6l_{1} \\ & \text{S/054/61/000/002/005/005/005} \\ & \text{A new } \text{P-spectrometer } \cdots \\ & \text{obtained: } \mathbb{T} = -\frac{2}{2} - (1/r_{0})\mathbb{B}(\frac{2}{5}) + 1 \quad (5). \text{ For the function } \mathbb{B}(\frac{2}{5}), \text{ the following} \\ & \text{holds: } \mathbb{B}(\frac{2}{5}) = \left(er_{0}^{2}/\text{mev}_{0}\right)^{-\frac{2}{3}} \mathbb{E}\mathbb{H}(\frac{2}{5})d\frac{2}{5} \quad (6). \quad \mathbb{C}_{F} = \text{const is written down and} \\ & \text{the solution for Eq. (3) sought. For } \frac{2}{5}(-\frac{2}{5}), \text{ the following series is written} \\ & \text{down:} \\ & p(\mathbf{x}) = 1 + \theta \sum_{p=0}^{\infty} \lambda_{p} \frac{p+1}{2}, \qquad (10), \\ & \text{where } \Theta \text{ is a parameter to be determined. For } \mathbb{E}_{F}, \text{ one finds:} \\ & \mathbb{E}_{F} = \frac{1}{2}(-\frac{2}{5}/\mathbb{E})\left(\sum_{k=0}^{\infty} \mathbb{E}_{k} + \sum_{k=0}^{\infty} \mathbb{E}_{k} \frac{(k+1/2)}{2} \right) \quad (15), \text{ where } \mathbb{R}_{k} = \sum_{i=0}^{k} \left[a_{i}/(1-2i)\right] \\ & \mathbb{L}_{2}^{(i)}(1) + 1 \cdot \mathbb{E}(k-i+1/2, i+1/2) \quad (16), \text{ and } \mathbb{E}_{k} = \frac{k}{1=0} - \frac{a_{i}}{2}/(1-2i)^{2} \mathbb{L}_{2}^{(i)}(1-2i) \\ & -\mathbb{E}(k-i+1, i+1/2) \quad (17). \text{ The condition of focusing is fulfilled if all Card 3/9} \end{aligned}$

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A new A-spectrometer

coefficients of R_k and E_k , with the exception of R_0 , become equal to zero: $F_F = \pm (\frac{12}{2})R_0$, and $\theta = \pm (\frac{12}{2})F_F$ (18). By successively setting the coefficients of R_k and E_k equal to zero, the equations for R_k are obtained (k = 1, 2, ...):

$$\lambda_{1} = \frac{\theta}{4}; \quad \lambda_{2} = \frac{1}{4}; \quad \lambda_{3} = \frac{\theta}{32}; \quad \lambda_{4} = \frac{11}{160} - \frac{3}{320}\theta^{2};$$

$$\lambda_{5} = -\frac{1}{80}\theta + \frac{1}{320}\theta^{3}; \quad \lambda_{6} = \frac{83}{4480} + \frac{3}{1280}\theta^{2} - \frac{1}{896}\theta^{4},$$

$$\lambda_{7} = -\frac{687}{71680}\theta + \frac{3}{20480}\theta^{3} + \frac{3}{7168}\theta^{5}; \dots$$
(19)

For $H(\mathcal{T})$ the following is obtained from Eqs. (5) and (6):

$$H(\tau) = -H_0 \frac{1}{\rho(\tau)} \left(1 + 1 / \frac{d\varphi(\tau)}{d\tau}\right).$$
 (20)

By means of Eqs. (10) and (20), the values of the function H = E() for Card 4/9

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A new A-spectrometer ...

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 $Y_F = 120^{\circ}$ were calculated. At present, a spectrometer is under construction for the study of the 1- and -radiation of short-lived isotopes; it was designed on the basis of data listed in the Table. The chamber of the spectrometer is schematically shown in Fig.3. The trajectories shown in Fig.3 were calculated according to V. R. Saulit (Ref.3: Izv. AN SSSR, seriya used as a p-spectrometer and permits correlation experiments. There are 3 figures, 1 table, and 7 references: 4 Soviet-bloc and 3 non-Scviet-bloc. The reference to English-language publication reads as follows: F. M. Beiduk, E. J. Konopinski, Phys. Rev., 73, 1229, 1948

Card 5/9

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High-orde: field wit	r foc n bou	using of pdaries o	a plane mon of arbitrary	oenerget shape.	ic ion Vest.	beam by LGU 16	y a uniform no.10:42-54 (MIRA 14:5)	•
· OI e	(Íon	beans)		(Magneti	c fiel	ds)	•	





"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447310002-9 5/054/62/000/001/005/011 35347 B102/B112 Theory of the sector-type magnetic spectrograph with a uni-form field and straigth houndaries 24.3400 (1153,1163,1227) PERIODICAL: Leningrad. Universitet. Vestnik. Seriya fiziki i khimii, "UTHOR: TEXT: One sector of a magnetic spectrograph (Figs. 1, 2) is considered, and its characteristics are described analytically. The coordinates of the focal curve are obtained as TITLE: $\begin{aligned} x_{02} &= R\left(\epsilon_{2}\right) \left\{ \sin \epsilon_{2} \cos^{2} \epsilon_{2} \left[\frac{y_{01} \cos \phi + R\left(\epsilon_{2}\right) \cos^{2} \epsilon_{1} \sin\left(\phi + \epsilon_{1}\right)}{y_{01} \sin \phi - R\left(\epsilon_{2}\right) \cos^{2} \epsilon_{1} \cos\left(\phi + \epsilon_{1}\right)} - \operatorname{tg} \epsilon_{2} \right] \right] \\ &- \frac{\sin \epsilon_{1}}{\sin \phi} - \cos \epsilon_{2} - \sin \epsilon_{2} \operatorname{ctg} \phi \right\}, \end{aligned}$ the focal curve are obtained as (9) (10). $y_{02} = R(\epsilon_{2})\cos^{3}\epsilon_{2} \left[\frac{y_{01}\cos\phi + R(\epsilon_{2})\cos^{2}\epsilon_{1}\sin(\psi + \epsilon_{1})}{y_{01}\sin\psi - R(\epsilon_{2})\cos^{3}\epsilon_{1}\cos(\phi + \epsilon_{1})} - ig\epsilon_{2} \right],$ $R(z_2) \equiv \frac{(x_{01} + y_{01} \lg z_1) \sin \Phi}{\sin z_2 + \sin (z_1 + \Phi)}$ card 1/4

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Theory of the sector-type magnetic ...
The course of the function
$$B(\alpha)$$
 is studied. With $\alpha_2 = \arcsin \frac{3\cos^2 \beta - 1}{\sqrt{1 + 3\cos^2 \beta}}$,
the aberration function reads
 $B(\alpha_2^*) = 2R \cdot \left(\frac{4\cos\beta - \sin\beta(1 + 3\cos^2\beta)^{3/2}}{1 + 3\cos^2 \beta}\right)$. (27).
After discussing some problems of focusing order, the special case of a
field is dealt with for first-order focusing.
 $y_{02} = \lambda \int_{k=0}^{\infty} a_k \sin^k \varepsilon_2$ and $x_{02} = \lambda \int_{k=0}^{\infty} b_k \sin^k \varepsilon_2$, where
 $\lambda \equiv \frac{(x_0 + y_0)g_{12} \sin \phi}{\sin(\varepsilon_1 + \phi)}$, (32).
 a_k and b_k are complicated functions of ε_1 and $\frac{\pi}{2}$. Formulas are also
presented for dispersion, aberration, and total transverse aberration.
It is shown that a proper choice of geometrical parameters for first-
order focusing furnishes a wider aperture than for second-order focusing.
Yu. M. Vikharev is thanked for numerical calculations. There are 14
Card $3/5$



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CIA-RDP86-00513R001447310002-9

印建西部

S/054/62/000/002/004/012 B163/B138

AUTHORS: Popovich, M., Saulit, V. R.

Theory of the focusing of ion beams by a magnetic sector, taking into account stray-fields

PERIODICAL: Leningrad. Universitet. Vestnik. Seriya fiziki i khimii, no. 2, 1962, 38-65

TEXT: The band of all plane trajectories leaving one source point S in the plane of symmetry of a magnetic sector field and the band of all trajectories in the same plane having one focal point F_0 in common are studied. For each of these bands, the geometrical locus (C_1 and C_2)

of all centers of curvature of those circular parts of the trajectories, which proceed in the homogeneous region of the sector field, can be constructed. The focusing properties of the sector field are expressed in terms of these curves C_1 and C_2 . n-th order focusing occurs if both

curves have a point of contact of n-th order. The deviations $A(\alpha)$ of neighboring trajectories from a principal trajectory in a plane

Card 1/2

TITLE:

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Theory of the focusing of ion beams ...

S/054/62/000/002/004/012 B163/B138

through F_0 , which is parallel to the exit boundary of the sector field, can be expressed as functions of the angle α between both trajectories when they leave the source. Expressions for the aberration coefficients, i.e. the coefficients of an expansion of $y_F(\alpha)$ in a power series, are

given up to the third order, and conditions for 1st, 2nd, and Jrd order focusing are derived. An expression for the momentum dispersion is given. Many of the results are identical to or equivalent with results derived earlier by König and Hinterberger (Zs. Naturforsch., 10a, 1955, 652 and 877) but the derivation is given in more detail. There are 11 figures.

SUBMITTED: November 1, 1961

Card 2/2.

APPROVED FOR RELEASE: 07/13/2001

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447310002-9 \$/054/62/000/003/005/010 1,1110 B102/B186 Focusing of charged particles by a rectilinear boundary of 9,3140 24.6740 Leningrad. Universitet. Vestnik. Seriya fiziki i khimii, Saulit, V. R. a uniform magnetic field AUTHOR: TEXT: The focusing properties of a uniform magnetic field, by a straight line is investigated theoretically. The source of the charged narticles is assumed to be within the magnetic field. . TITLE: straight line is investigated theoretically. The source of the charged particles is assumed to be within the magnetic field. This focusing mode was suggested by P. H. Fowler and was investigated by Hafner et al. PERIGDICAL: Particles is assumed to be within the magnetic field. This focusing was suggested by P. H. Fowler and was investigated by Hafner et al. (Phys. Rev. 75, 331, 1949). Up to now, no general theory has been published. A special case was treated by Rout et al. in Nucl. Instr (Phys. Rev. 75, 331, 1949). Up to now, no general theory has been published. A special case was treated by Rout et al. in Nucl. Instr. Meth. 11, 347, 1961. Using the designations (Fig. 1) some general formulas are given and then the two special cases $\varepsilon > 0$ and $\varepsilon < 0$ are investigated. If $\varepsilon > 0$ $y = x \operatorname{tg} \mathfrak{e} - y_{01} - \frac{1 + \sin^2 \mathfrak{e}}{\cos^2 \mathfrak{e}}$. If ε≫0 . . 11

APPROVED FOR RELEASE: 07/13/2001

S/054/62/000/003/005/010 B102/B186

(10)

Focusing of charged particles ...

is obtained for the asymptote of the image curve and

 $D_{p} = R \sqrt{\left(\frac{dx_{\text{on}}}{dR}\right)^{2} + \left(\frac{dy_{\cdot a}}{dR}\right)^{2}}$

together with

$$\frac{dx_{02}}{dR} = \cos\varepsilon + \frac{1 + \left(\lg z - \frac{y_{01}}{R\cos^3 \varepsilon} \right) \left(\lg z - 2\frac{y_{01}}{R\cos^3 \varepsilon} \right)}{\left[1 + \left(\lg z - \frac{y_{01}}{R\cos^3 \varepsilon} \right)^3 \right]^{3/2}},$$
(11)
$$\frac{dy_{\cdot,2}}{dR} = \sin z + \frac{\lg z + \left(\lg z - \frac{y_{01}}{R\cos^3 \varepsilon} \right)^3}{\left[1 + \left(\lg z - \frac{y_{01}}{R\cos^3 \varepsilon} \right)^2 \right]^{3/2}}.$$

for the momentum dispersion along the image curve. The aberration too is investigated. The case $\mathcal{E} < 0$ is treated still more accurately. The formulas from the first case are partly valid, but e.g. the dispersion formula (10) is simplified to D = 2R cos $\mathcal{E} \sqrt{1+3\sin^2 \mathcal{E}}$ and

D ≈ 2.3094 R, if a straight section of the curve is considered. For p max

Card 2/4

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447310002-9

Focusing of charged particles ... $\frac{5/054/62/000/003/005/010}{B102/B186}$ the aberration along the straight section of image curve (Fig. 9) $B(\alpha) = 2R\sqrt{1+3\sin^2\epsilon} \left(\frac{\cos^2(\epsilon+\alpha)}{\cos\epsilon\cos\alpha - 2\sin\epsilon\sin\alpha} - \cos\epsilon\right)$ (28) is obtained. In theory, $19^{\circ}28!$ ($\epsilon = -35^{\circ}15!51"$) holds for the optimum $\sqrt{100}$ value, whereas in experiment 20° was found by Rout et al. There are 9 figures. SUBMITTED: March 18, 1962

APPROVED FOR RELEASE: 07/13/2001

SAULIT, V.R. Theory of a sectorial magnetic spectrograph having a homogeneous field and rectiling ar boundaries. Vest. LEU 17 no.4:37-55 '62. (MIRA 15:3) (Spectrograph)

APPROVED FOR RELEASE: 07/13/2001

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SAULIT, V.R. Space distribution of the field in magnetic spectrometerw and the form of pole tips. Vest.LGU 17 no.22:29-44 '62. (MIRA 15:12) (Magnetic fields) (Spectrometers)



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SAULIT, V.R.

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Double focusing by a homogeneous sectioned magnetic field with scraight boundary lines. Vest. LGU 20 nc.4:49-66 465. (MIRA 18:4)

APPROVED FOR RELEASE: 07/13/2001

街橋崎崎和唐

L 45419-65 EWT(1) ACCESSION NR: AP5008262 S/0054/65/000/001/049/0066	
AVIIION.	
TINE: Double focusing by a uniform sector-shaped magnetic field with rectilinear boundaries	
SOURCE: Leningrad. Universitet. Vestnik. Seriys fiziki i khimii, no. 1, 1965, 49-66	
TOPIC TAGS: double focusing, uniform magnetic field, magnetic field, charged particle beam, particle heam focusing β_{λ} ABSTRACT: The problem of focusing a beam of charged particles in the vertical di- rection by a uniform sector-shared magnetic field is investigated in some detail and the condition is defined for first-order focusing. The present study was undertaken because of the fact that for the analysis of beams of charged particles of great mass and energy β -spectrometers, of which several dozen have been built to date, are economically unsuitable due to the great size of their magnets. Furthermore, too many gross assumptions have been made in the derivation of the for mulas in the previous theoretical studies. In contrast to earlier studies, the condition for first-order focusing has been rigorously derived and is more accurate	
Cord 1/2	

ossible to design a prived formulas are or the design of bod the sector-shaped edium plane are fund is thanks to <u>P.P. Za</u> ptic field with rect loures.	system with sufficient] h long- and magnetic fi tions of a wruhin for (double focusin Ly accurate for short-focus sys leld, it is assu ningle (artesia hupolving the re	g with a preas practical pur tems. In defi- ned that the n coordinate. sults of meas	pises and dan b ining the licend fringing fields "The author e uring a frieging	y. The e used aries on the xpresacs g mag-
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SAULITE, E.; LAGANOVSKIS, S.

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Studying pneumonia in pigs in the Latvian S.S.R. (in Latvian with summary in English]. Vestis Latv ak no.1:97-104 '62.

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1. Latvijas PSR Zinatnu akademija, Mikrobiologijas instituts

APPROVED FOR RELEASE: 07/13/2001

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LAGANOVSKIS, S.; SAULITE, E.

Studies of infectious atrophic rhinitis in swine, microflora of the nose. Vestis Latv ak no.2:119-124 '62.

1. Latvijas PSE Zinatmu akademijas Mikrobiologijas instituts.

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- **5**

SAVETTER, E.G.

Tuberculosis of birds and the fight against it. p. 167.

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BICLOCICHESIZIA MAUKA; SELSHIMU L LESHCHU KUCITAISTYU. (Latvijas PSR Zinatnu akademija. Biologijas sinatnu vodala) Riga, Latvia, No. 3, 1957.

Henthly list of East European Accessions (EEAI), LC, Vol. 8, No. 8, August 1959. Uncla.

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T P. C. R. B.

Camel SAULITE, E. G.: Master Biol Sci (diss) -- "The significance of vitamins in the prophylaxis of tuberculosis in birds". Riga, 1958. 18 pp (Acad Sci Latvian SSR, Inst of Experimental Med), 200 copies (KL, No 4, 1959, 124)

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UNTRY TECORY	: ISSN : Discases of Farm Animals. Diseases Caused by Bacteria and Fungi	
BS. JOUR.	Bacteria and Fungi : RZhBiol., No. 6 1959, No. 25985	
JTHOR MST. ITLE	: Saulite, E.G. : Institute of Alerobiology, AS LatvSSR : Significance of Vitamins in the Prophylaxis of Poultry Tuberculosis	
RIG. PUB.	: Tr. in-ta mikrobiol. AN LatvSSR, 1958, vyp, 6	re-
BSTRACT	: Experiments showed that vitaminic roots (evel rous needles and green feed) arrest the devel ment of the tubercular process in the organis of hens, Vitamin D and especially vitamin A s the development of the tubercular process in peroral infection of hens and chicks. Anatomi pathological changes in the hens' organs visi with the naked eye, and bactorioscopical exam	ri top the co- ble
CARD:	1/2	

8/798/61/000/000/011/012 AUTPORS: Saulite, U.A., Chudars, Ya.E. A sointillation beta-spectrometer.

Radioaktivnyye islucheniya i metody ikh issledovaniya. SOURCE: Inst. fiz. AN LatvSSR. Riga, Izd-vo AN LatvSSR, 1961, 123-134.

This paper describes a scintillation β -spectrometer with a twin CsI(T1) TEXT: crystal and expounds a method for the calculation of the y-ray background. There is also a description of several changes in the single-channel analyzer employed to achieve increased resolution; a discussion of the effect of the random summation of impulses in β -spectra. The new spectrometer consists of the crystal, an $\varphi \partial \mathcal{F}$ -29 (FEU-29) photoelectronic multiplier (PhM), a no-overload linear amplifier, a single-channel analyzer or an AM-100-1 (AI-100-1) multichannel analyzer, a counter and a mechanical adder. Three CsI(T1) laminae 19x9x2 mm were prepared; the 2-mm thickness is sufficient to register β -particles with maximum energies up to 4 mev. In the observation of β -spectra two such plates were used; the β -source was contained in a round pouch made out of 50-µ thick polystyrene. The third plate served as a β -particle absorber in observations of the γ -ray background. The PhM employed had a voltage-divider resistance of 7.115 Mohm and was equipped with a ferroresonance voltage stabilizer. Details of the single-channel amplitude analyzer are described. The spectrometer was calibrated with the aid of the Co60,

Card 1/2

TITLE

APPROVED FOR RELEASE: 07/13/2001
A scintillation beta-spectrometer.

S/798/61/000/000/011/012

 Cs^{137} , and Hg^{203} isotopes for a NaI(T1) crystal and for the twin CsI(T1) crystal. The scale is linear. The resolution of the spectrometer for the Cs137 with a NaI(T1) crystal is 12%, with a twin CsI(Tl) more than 20%. In the latter case the Compton distribution is intense. The separation of the noise and cosmic-ray spectrum F_1 from the spectrum F_2 of the electromagnetic radiation of the given β -preparation by means of the β -ray-absorbing third plate is described, and the number of absorbed rays is analytically estimated. Experimentally obtained F₁ and F₂ curves are also shown. The β -spectra of P³² and C⁴⁵ are plotted in terms of the number of pulses registered in 30 sec, N, versus the energy E, and also as a Fermi graph. The Ca⁴⁵ spectrum is correlated with the theoretical curve. The deviations at the high-energy end are attributed to the inadequate resolution of the spectrometer and to the random summation of the pulse amplitudes; those at the low-energy end are attributed to absorption in the foil. The experimental β -spectrum of a combined $Ca^{45} + p^{32}$ preparation is depicted in both the N-versus-E and the Fermi-graph form. The random summation of the amplitudes of the pulses in a β -spectrometer and their effect on the shape of the β -spectrum is analyzed, and it is shown that a correction for twofold and even threefold random summations should be calculated in certain cases. There are 11 figures, 2 tabulated calculation schemes, and 4 references (2 Russian-language Soviet papers and 2 Russian-language translations of English-language books: Beta and gamma-spectroscopy (Author's name not given). Fizmatgiz, Moscow, 1959; Elmore, E., Sands, M. Electronics in nuclear physics. For. Lit. Publ. House, Moscow, 1953). Card 2/2

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		S/197/63/000/002/005/005 B117/B186	
1	AUTHORS:	Dobryakov, D., Nikolayev, V., Saulite, U.	
,	TITLE:	Electromagnetic rabbit transport for atomic reactors	
	PERIODICAL:	Akademiya nauk Latviyskoy SSR. Izvestiya, no. 2 (187), 1963, 68-74	
	developed at LatSSR). The vertically at the rabbits cave into the hot cave. The parts: 1) Me circuit; 4) at The mechanica with a support transport ch	abbit conveyor for atomic reactors here described was the Institut fiziki AN Latv. SSR (Institute of Physics AS is transport system utilizes one of the channels arranged long the periphery of the active zone for rapidly transporting (transport time of the order of several seconds) from the hot a active zone and after exposure to irradiation back to the he electromagnetic rabbit conveyor has the following principal chanical assembly; 2) inductance:coil; 3) operational control automatic cut-off unit for the power supply of the inductor. al assembly comprises the transport channel, a divergent cone rt and a jacket. The conveyer is the movable part. The innel is an aluminum tube 15 m long (52 mm inner diameter, hickness), connecting the active zone with the hot cave. The yer for transporting the rabbits with the substance to be	

irradiated comprises: cylindrical guides, carriers and rabbits (6 cylinders and 5 rabbits with the paylcad). Its motive force is a three- phase electromagnetic field within the channel (4 sec from the hot cave into the active zone and 3.5 sec on the way back). The winding consists of 150 coils, divided into two parallel circuits (72 and 78 coils), of which	
30 are used for slowing down the conveyer when it enters the hot cave. For a payload of 300 g, an amperage of 230-340 a is necessary to lift the down. An aluminum blanket which is the load-bearing part of the entire diagram, including the possibility of automatic control provides for the unit are: Control console, automatic control and time-lag relay. In view electromagnetic transport is pure aluminum. All tests of the system, the device is about 200 kva. There are 5 figures.	
ASSOCIATION: Institut fiziki AN Latv.SSR (Institute of Physics AS LatSSR) SUBMITTED: September 26,1962	

EVT'(d)/EPA(s)-2/EVT(m)/EVP(w)/EPE(n)-2/EVP(v)/T-2/EVP(t)/EVP(k)/L 01483-66 EM/JD/WW/JG EIP(b)/EAA(h)/EIC(m) UR/0382/65/000/002/0092/0100 62 621.689 : 531.4 ACCESSION NR: AP5016657 AUTHOR: Mikel'son, A. E.; Saulite, U. A.; Shkerstena, A. Ya. TITLE: Investigation of cylindrical coreless pumps SOURCE: Magnitnaya gidrodinamika, no. 2, 1965, 92-100 TOPIC TAGS: MHD flow, liquid metal pump, electromagnetic pump gu ABSTRACT: A cylindrical pump of the coreless type is studied theoretically and experimentally. It consists of finite induction coils and an infinite conducting cylinder concentric to the coils. The inductor coils of negligible thickness produce a traveling magnetic field which is derived from Maxwell's equations (with the help of vector potentials) and depends on the phases of each of the three solenoids forming the inductor. Some computational shortcuts are indicated. The analysis of the results shows that inside of the cylindrical coreless pump, when it operates in the static region, there is relatively intense internal circulation of the metal. The experimental data agrees well with calculations and the method is suitable for design of such pumps. These pumps are applicable in moving of such active metals Card 1/2

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 hu281-66 EWT(1)/EWT(m)/T WW/DJ ACC NR: AP6005393 (N) SOURCE CODE: UR/0413/66/000/001/0142/0142 INVENTOR: Kirko, I. M.; Branover, G. G.; Ioffe, B. A.; Saulite, U. A. ORG: none TITLE: Hermetically sealed piston pump. Class 59, No. 177778 Institut fiziki Akademii nauk Latviyskoy SSR)] SSR (Institut fiziki Akademii nauk Latviyskoy SSR)] SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 1, 1966, 142 TOPIC TAGS: piston, pump, pump, formetic Stal Piston pump containing a inductor, a duct, and pistons. For higher piston pump containing a inductor, a duct, and pistons. For higher ifficiency the pistons are made of electroconductive nonferromagnetic efficiency the pistons in the delivery zone (see Fig. 1). Orig. art. has: 1 figure.	
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UDC: 621.65	
<u>Card</u> 1/2	

CIA-RDP86-00513R001447310002-9

ACC NR. AP6033674 SOURCE CODE: UR/0371/66/000/004/0087/00921 AUTHOR: Ioffe, B. A.; Saulite, U. A. ORG: Institute of Physics, AN LatSSR (Institut fiziki AN LatvSSR) TITLE: Experimental investigation of an electromagnetic rotary displacement pump SOURCE: AN LatSSR. Izvestiya. Seriya fizicheskikh i tekhnicheskikh nauk, no. 4, 1966, 87-92 TOPIC TAGS: fluid pump, electromagnetic pump, hydraulic pump ABSTRACT: The authors describe the operating principles and the results of the first tests of a new type of electromagnetic induction pump, developed at the Institute of Physics of the Latvian Academy of Sciences, for the purpose of pumping conducting corrosive liquids. The pump uses no stuffing glands or bearing units, nor are valves required for the operation (Fig. 1). The construction of the test pump is described. Test results of pumping water and a solution of emulsifying oil of different viscosity are described. The described model was aimed only to check on the feasibility of the operating principle, without attempting to obtain optimal construction or high efficiency. The efficiency can be increased by improving the electromagnetic and hydraulic units. Ways of improving the design are briefly discussed. The authors thank Doctor of Physical and Mathematical Sciences I. M. Kirko and Candidate of Technical Sciences G. G. Branover for valuable advice and recommendations during the. Card 1/2

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ACC NR: AP7000368		SOURCE. CODE	: UR/0413/66	/000/022/01	.54/0154].
INVENTOR: Kirko,	I. M.; Branover, G.	G.; Ioffe, B. A	A.; Saulite,	U. A.		
ORG: none						
TITLE: Plate-type of Physics, AN Lat	hermetic pump. Cla vian SSR (Instit	uss 59, No. 18884 Sut fiziki AN L	7. [announc atviyskoy S	ed by the I	nstitute	
SOURCE: Izobreten	iya, promyshlennyye	obraztsy, tovar	nyye znaki,	no. 22, 19	66, 154	
TOPIC TAGS: pump,	fluid pump, hydraul	ic pump			•	
design, the casing tight closing and f	or Certificate has be be-line inductor, pl is made in the form or the automatic con surfaces the plates'	of a closed and	d plates.] nular duct.	to simplify To assure	its its	
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SAULITE, Ye. [Saulite, E.]

Tuberculous mycobacteria in cow's milk. Vestis Latv ak no.9:149-154 '60. (EEAI 10:9)

1. Latvijas PSR Zinatnu akademija, Mikrobiologijas instituts.

(MYCOBACTERIUM TUBERCULOSIS) (MILK)

ULOVA, A.	CZECHOSLOVAKIÁ	
ALY, M.; BARTLOVA, S.; JANIKOVA, M.; SAULOVA, A.	CSER	
District Hygiene and Epidemiological Station, Erno-rural hygienicko-epidemiologicka stanice, Brno-venkov)	(Okresni	
Prague, Ceskoslovenska hygiena, No 10, 1962, pp 604-609		
"Influence of Protective Coating on the Sanitary Standar	rds of Water"	
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Multitrack recording instruments ...

2C (REF-2S). In this controller, as prosed to the existing controllers $\Im PC = 67$ (ERS=67) and $\Im PK = 77$ (ERK=77), the readings of control intervals are independent of the formation of cutput signals. For multi-point control, the Institute has developed a switching, six-position unit type 6NY-6 (BPU-6). A further development of it, a multi-channel control device type P30 - 6 (REP-M6) makes it pos-sible to adjust every control channel for the specific dynamics of the object. The use of the control arrangement REP-M6 or 3PV -7K (ERU-7K) in conjunction with the switching unit BPU-6 makes it pos-sible to obtain a multi-channel, multi-point control of up to 100 points. The following other automation devices have also been developed at the Institute. 1) Electronic control device type P37 -NM (REP-IM), Its measurement section takes the form of an a.c. bridge, the control section consists of a set of four electronic time relays, using type 6HMI (6NIP) valves and electromechanical relays. The device is quite flexible in operation. 2) Electronic control device type PAN-2 (REP-2). A more sensitive variant of RFP 2). A more sensitive variant of REP IM with self-tynchronizing output relays and a thyratron for indication of control operation. 3) Elec-

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tronic control device type PBN -3 (REP-3), developed for controlling high-resistance (ferro-dynamic) pick-ups which require higher input voltages. This has been achieved by using a $6 \times 5 \Pi$ ($62h5 \overline{P}$) pentode at the input. The response is logarithmic which, however, does not introduce noticeable distortion of the static characteristic of the controller. For sequential multi-point control using type REP controllers, the latter are used in conjunction with switching units BPU-6. Each of the controllers of the above type, has a contact controlling the BPU operation in such a manner, that after the control device has been switched to the control position, the BPU. connects to it the pick-up and the cutput of the next object. The circuit of the BPU device represents a ring circuit, designed around cold cathode thyratrons type MTX -90 (MTKh-90), which can switch from 2 .. 6 controlled points. The instruments of multi-point sequential control type ƏMNP (EMPR) and ƏNNP (EPPR) are used as the basis for REI-2S instruments, the modification consisting of adding another bank of commutators to the switch and by replacing the discs of the position control arrangement by potentiometer pick-ups. The six-channel electronic controller REP. M6 consists of eight units,

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Multitrack recording instruments

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six having a thyratron trigger in conjunction with two $6 \text{H}\text{M}\Pi$ (6NIP) value switches. The six are triggered from a time interval unit, the latter consisting of a binary thyratron counter. The $\exists PP - 7H$ (ERU-7K) seven-channel control device consists of eight units again. Seven of these are the proper control circuits and the eighth is the power supply unit. Every control unit consists of an amplifier using a 6Zh5P value in conjunction with an electronic time relay. The series production of REP-IM instruments began in 1960; REP-2, REP-3, REP-M6, BPU 6 and ERU-7K are produced in small betches by the experimental plant of the Institute of Automation. The multi-track instruments are not being series-produced. There are 10 figures and 1 table.

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"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447310002-9 **班利福祉教**務 SAULOVA, L.V.; BEREZOVSKIY, M.A.; BEZUSYAK, Yu.L.; SAS, T.P. Experimental radio system for remote control of bridge cranes. (MIRA 16:1) Avtom.i prib. no.4:13-17 O-D '62. 1. Institut avtomatiki Gosplana UkrSSR. (Cranes, derricks, etc.) (Remote control)

初始 悪礼を約 2

BEZUSYAK, Yu.L.; SAULOVA, L.V.

Influence of certain factors on the degree of squeezing out of alkali cellulose. Khim.volok. no.1:60-63 '6 β , (MIRA 16:2)

1. Kiyevskiy institut avtomatiki Gosplana UkrSSR. (Cellulose) (Mercerization)

CIA-RDP86-00513R001447310002-9

BEREZOVSKIY, Mikhail Aleksandrovich, inzh.; KOROBKO, Mikhail Ivanovich, kand. tekhn. nauk; <u>SAULOVA, Larisa</u> Vyacheslavovna, inzh.; KOCHO, V.S., dektor tekhn. nauk, retsenzent

> [Sampled-data control devices] Elektronnye reguliruiushchie ustroistva preryvistogo deistviia. Kiev, Tekhnika, 1964. 137 p. (MIRA 18:1)

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SAUL'YEV, V. K.

"The Approximate Solution of the Problems of Eigenvalues for Differential Operators With Partial Derivatives by the Method of Finite Differences." Cand Phys-Math Sci, Mathematics Inst imeni V. A. Steklov, Acad Sci USSR, 16 Dec 54. (VM, 7 Dec 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12) SO: Sum. No. 556 24 Jun 55

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SAULYEV VK.

SUBJECT	USSR/MATHEMATICS/Differential equations CARD 1/1 PG - 179
AUTHOR	SAUL'EV V.K. On the question of the solution of the eigenvalue problem
TITLE	with the difference method. Vyčislit.Mat.vydislit.Techn. 2, 116-144 (1955)
PERIODICAL	Vyčislit.Mat.vydislit.Techn. 2, 110 111 (111) reviewed 7/1956

In analogy to a paper of H.Bückner (Math.Z. <u>51</u>, 423-465 (1948)) the author estimates the velocity of the convergence of the difference-eigenvalues with respect to the corresponding differential-eigenvalues for the case of the general selfadjoint elliptic n-dimensional operator for curvilinear boundaries of the domain.

