

VYALKIN, A.

VYALKIN, A., kand. ekon. nauk.

Enlarge automotive transportation units. Avt. transp. 36 no.1:30
Ja '58. (MIRA 11:1)

(Transportation, Automotive)

~~VYALKIN, A.I.~~

Mail for the heroine of Brest, Raisa Abakumova. Med.sestra 19 no.11:
44-45 N '60. (MIRA 13:11)
(ABAKUMOVA, RAISA IVANOVNA)

VYALKIN, V., polkovnik; MAKIBANOV, Ya., mayor tekhn. sluzhby

Checking on orientation. Voen.vest. 39 no.5:83 Iy '60. (MIR. 14:2)

(Antiaircraft guns)

VYAL'KO, Ye. F.

USSR/Chemical Technology - Chemical Products and Their Application. Fermentation Industry, I-27

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 63559

Author: Mal'tsev, P. M., Zazirnaya, M. V., Velikaya, Ye. I., ~~Vyal'ko, Ye. F.~~

Institution: None

Title: Effects of Separation on Qualitative Composition of Beer Wort

Original

Periodical: Tr. Kievsk. tekhnol. in-ta pishchevoy prom-sti, 1953, No 13, 101-105

Abstract: Studies of qualitative changes in turbid beer wort on 5-minute centrifugation in laboratory precipitation centrifuge at 2,000 RPM. The indexes thus obtained are compared with those of clear wort (CW) collected from outlet of filter-press after filtration of turbid liquor that was concurrently subjected to separation. Residue of insolubles in CW was the same within 0.01-0.03 g/100 ml. Turbidity of separated CW is almost 2 times less due to more complete removal of colloids both prior to and after hop treatment of the wort. Color and pH of CW are the same. Protein content and dextrin content of CW are practically the same.

Card 1/1

VYALIKOV, N., kapitan, voyenny letchik pervogo klassa

Flight instructor and student. Av. i kosm. 17 no.6:21-24.
Ja '64. (MIRA 17:1)

VYALKOV, P.D., mashinist

We are wasting sand. Elek. i tepl. tiaga no.1:41 Ja '61.
(MIRA 14:3)

(Diesel locomotives)

VYALKOVA, G.A., operatsionnaya sestra

Exchange of experience. Med.sestra 19 no.8:37 № '60.

(MIRA 13:7)

1. Iz otdeleniya perelivaniya krovi Tyumenskoy oblastnoy
bol'nitsy.

(BLOOD--COLLECTION AND PRESERVATION)

VYALLO, A.A.

Combined cutting and press-working of shafts. Stan. i instr.
36 no. 12:23-26 D '65. (MIRA 19:1)

VYALOV, A. M.

Vyalov, A. M.

"Influenzal infection of the 'podbugrovaya' region." First Moscow
Order of Lenin Medical Inst imeni I. M. Sechenov. Moscow, 1956.
(Dissertation for the Degree of Candidate in Medical Sciences).

Knizhnaya letopis'
No. 21, 1956, Moscow.

VYALOV, A.M.; BAGNOVA, M.D.; BULYCHEV, G.V.; BYLOV, I.S.; GENKIN, A.G.;
KUBLANOVA, P.S.; PUSHKINA, N.N.; YUSHKEVICH, L.B.

Comparative evaluation of health conditions in workers employed in
producing synthetic fatty acids and higher fatty alcohols. Gig. i
san. 26 no.4:15-21 Ap '61. (MIRA 15:5)

1. Iz klinicheskogo otdela Moskovskogo nauchno-issledovatel'skogo
instituta gigiyeny imeni F.F.Erismana Ministerstva zdravookhraneniya
RSFSR.

(CHEMICAL INDUSTRIES--HYGIENIC ASPECTS)
(ACIDS, FATTY--PHYSIOLOGICAL EFFECT) (ALCOHOLS--PHYSIOLOGICAL EFFECT)

VIALOV, A.M.; BAGNOVA, M.D.; KUELANOVA, P.S.; PUSHKINA, N.N.; BULICHEV, G.V.;
BYLOV, I.S.; GENKIN, A.G.; KOTEL'NIKOVA, M.P.; SKLYANSKAYA, V.S.

Changes in the health of workers engaged in the production of
synthetic fatty acids. Uch.zap. Mosk.nauch.-issl. inst. san.
i gig. no.9:50-54 '61 (MIRA 16:11)

*

VYALOV, A.M.; BAGNOVA, M.D.; VASIL'YEV, A.S.; PUSHKINA, N.N.; YUSHKEVICH,
L.B.; BULYCHEV, G.V.; BYLOV, I.S.; GENKIN, A.G.; ZHIDKOVA, L.V.;
ZHIGULINA, L.A.

Early changes in the state of health of workers in the cumene
process of phenol and acetone production. Uch. zap. Mosk. nauch.-
issl. inst. san. i gig. no. 9:13-16 '61 (MIRA 16:11)

*

EXCERPTA MEDICA Sec 8 Vol 12/10 Neurology Oct 59

5022. LESIONS OF THE HYPOTHALAMIC REGION DUE TO INFLUENZA
(Russian text) - Vyalov A.M. - ZH. NEVROPAT. I PSIKHIAT. 1959, 59/3
(261-264)

In the clinical picture of hypothalamic lesions, 2 groups of symptoms are distinguished, according to the functions of the hypothalamus. The following 2 groups of symptoms characterize the diencephalic syndrome: (a) Asthenia; adynamia; sudden occurrence of dyspnoea; either retardation or acceleration of respiration; change in the ratio between length of inspiration and that of expiration; vasomotor lability; disturbed oculo-cardiac, pharyngeal and epigastric reflexes, and, finally, a change in blood pressure. (b) On the other hand, the following symptoms are also reported: anorexia and bulimia; oligodipsia and polydipsia; subfebrile and subnormal body temperatures; asymmetry of skin temperature; disturbed non-conditioned thermo-regulatory reflex (Tcherbak); and sleep disturbances. In particular, it is to be remarked that subfebrile temperature, if not accompanied by other signs of hypothalamic disturbance, cannot be attributed to damage to the tegmentum in the region of the 3rd ventricle. Generally, this indicates disturbances in other parts of the thermoregulatory system.
(L, 8)

*Klinika nervnykh bolezney (zav.-prg. Ye.K. Sepp. (deceased))
I. Moskovskogo ordena Lenina meditsinskogo inst.
ximeni I. M. Sechenova)*

VYALOV4A878

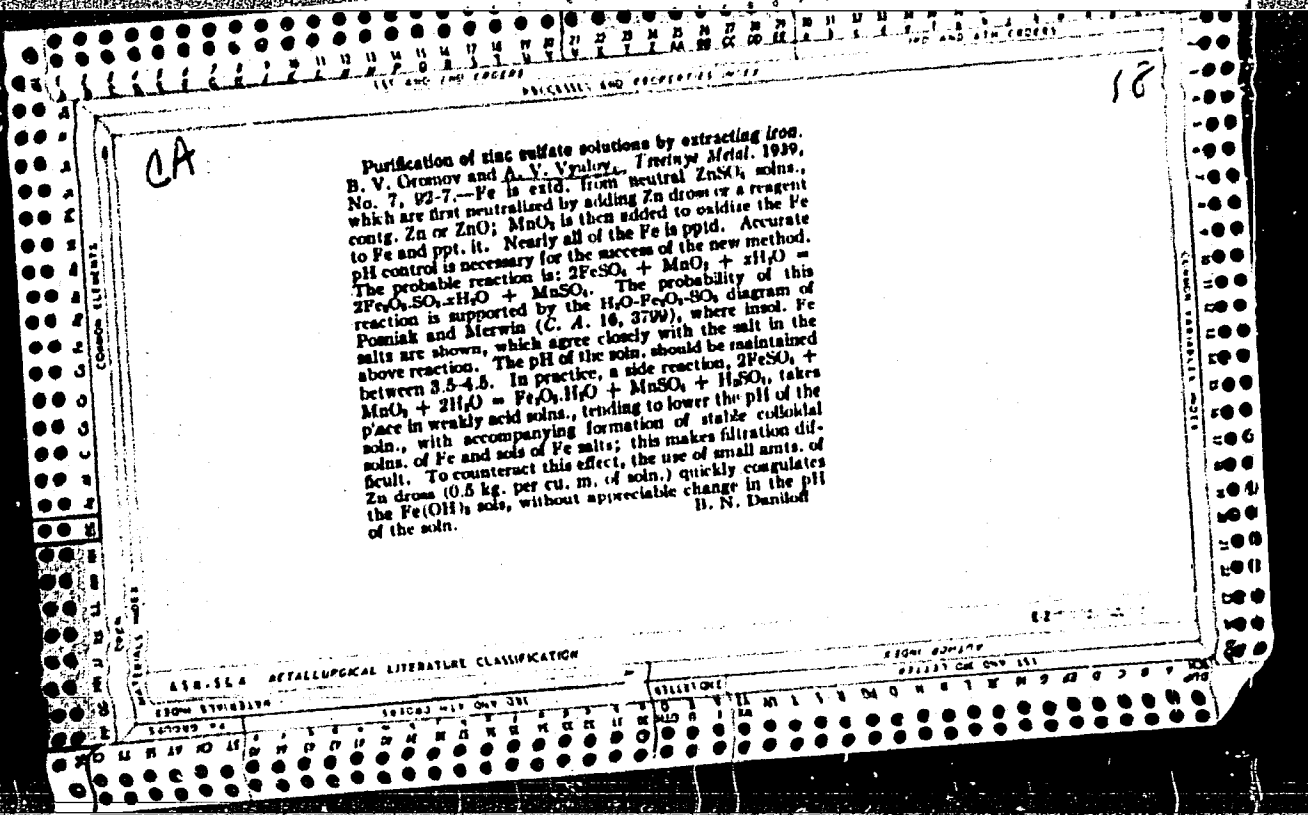
600

1. GROMOV, B. V., VYALOV A. V.

2. USSR (600)

Experimental Plant of "Glavtsinksvinets" (Main Admin. of Zinc and Lead Industry) "The Separation of Zinc Sulphate Solutions from Iron", Tsvet. Met. 14, No 7, July 1939

9. Report U-1506, 4 Oct. 1951.



Card 1/2

BABIKOV, V.V.; VYALOV, G.N.; INDREASH, G.

[Calculation of the electric system of extraction of an ion beam from a classical cyclotron] K raschetu elektricheskoi sistemy vyvoda ionnogo puchka v klassicheskom tsiklotrone. Dubna, Ob"edinennyi in-t iadernykh issledovaniy, 1963. 14 p. (MIRA 17:1)

VYALOV, G.N.

One method for computing the shape of a magnet for a given field.
Zhur.tekh.fiz. 32 no.3:287-293 Mr '62. (MIRA 15:4)
(Magnets) (Magnetic fields)

VYALOV, G.N.

[Two-dimensional problem of a magnetic field formed in the gap
of a symmetric magnet] Ploskaia zadacha formirovaniia magnitnogo
polia v zazore simmetrichnogo magnita. Dubna, Ob"edinennyi in-t
iadernykh issl. 1961. 14 p. (MIRA 15:1)
(Magnetic fields) (Magnets)

VYALOV, G.N.; FIKS, M.M.

Acceleration of particles of variable charge in a potential electric field. IAd. fiz. 2 no.1:112-116 JI '65.

(MIRA 18:8)

1. Ob'yedinennyy institut yadernykh issledovaniy.

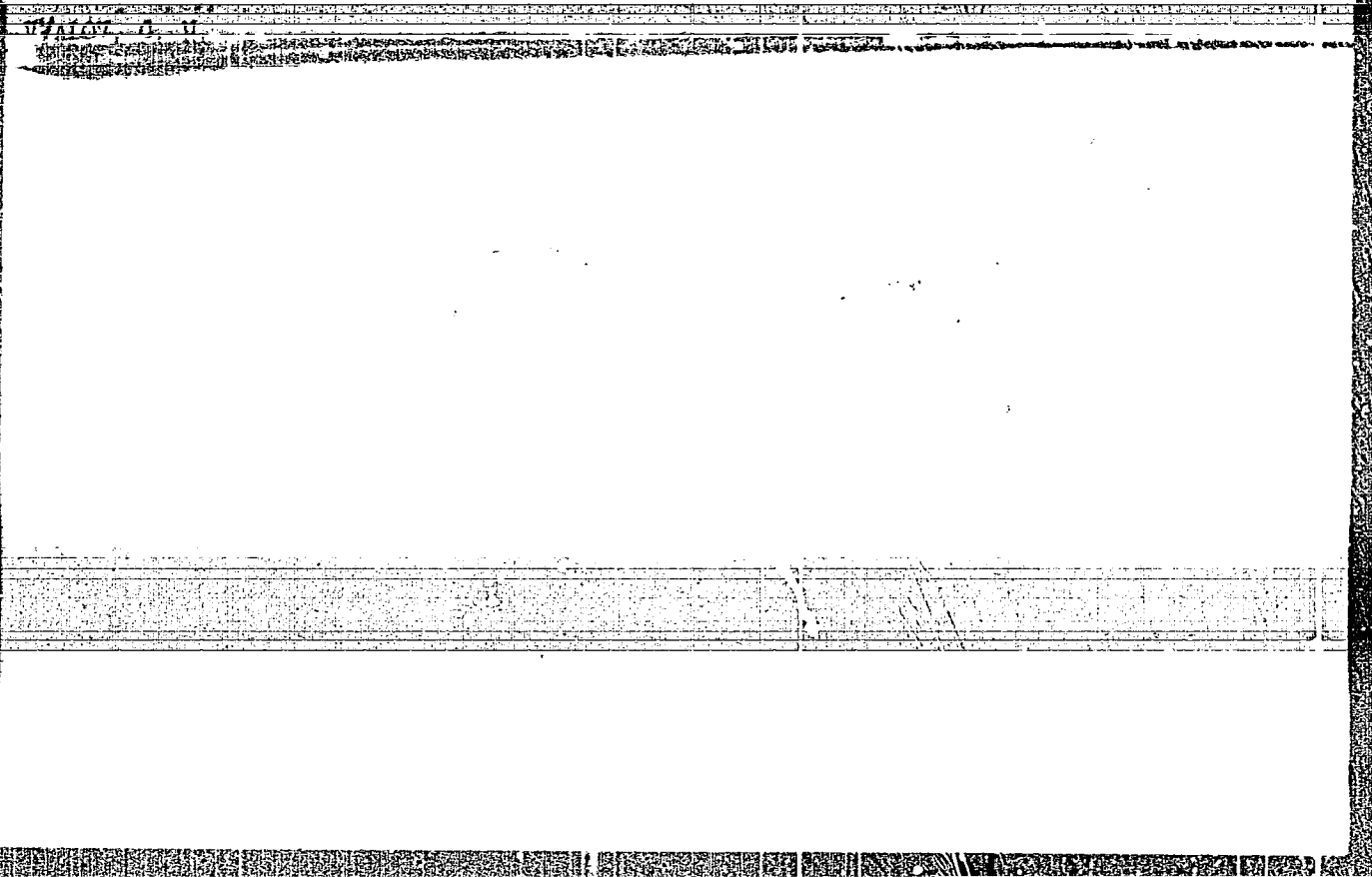
VYALOV, G.N.

Some problems concerning the regulation of a magnetic field by means
of a current. Zhur. tekhn. fiz. 32 no.11:1361-1370 N '62.
(MIRA 15:11)

(Magnetic fields)

"APPROVED FOR RELEASE: 09/01/2001

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"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001961320007-2

11 SEP 1986

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001961320007-2"

VYALOV, G.N.

Anomalous magnetic moment of nucleons, Zhur. eksp. i teor. fiz.
31 no.4:620-624 0 '56. (MLRA 9:12)

1. Fizicheskiy institut imeni P. N. Lebedeva Akademii nauk SSSR.
(Nuclear moments) (Nucleons)

42215

S/057/62/032/011/007/014
B104/B102

24.6730

AUTHOR: Vyalov, G. N.

TITLE: Some problems arising in the formation of a magnetic field by a current

PERIODICAL: Zhurnal tekhnicheskoy fiziki, v. 32, no. 11, 1962, 1361-1370

TEXT: The build-up of a given magnetic field by a plane current in a multi-layer magnet is investigated. Three cases are considered: (1) no interface (homogeneous magnet), (2) magnet with one interface and (3) with two interfaces. The current is calculated from the magnetic field produced by itself. The problem leads to the solution of a two-dimensional Fredholm integral equation of the first kind. The arbitrariness in the definition of the intensity of magnetization \vec{M} is avoided by considering only a plane current: X

$$\rho(r) = \rho_x i + \rho_y j + \rho_z k \equiv \rho_x i + \rho_y j, \quad (1.7)$$

$$\rho_z = 0, \quad (1.8),$$

$$\mathbf{M}(r) = M_x(r) \cdot \mathbf{k} = M(r) \cdot \mathbf{k}, \quad M_x = M_y = 0, \quad (1.9)$$

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Some problems arising in the ...

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where it is required that $M(x,y,z)$ at infinity should vanish with the current. The solution of the system

$$\text{rot } H(r) = 4\pi j, \quad (1.1)$$

$$\text{div } H(r) = \frac{1}{\epsilon(r)} H(r) \text{grad } \epsilon(r), \quad (1.4)$$

$$\epsilon(r) = \frac{1}{\mu(r)}. \quad (1.5)$$

is sought in the form $\vec{H}(\vec{r}) = 4\pi\vec{M}(\vec{r}) + \vec{h}(\vec{r})$, where \vec{h} is determined from

$$\text{rot } h(r) = 0, \quad (1.11)$$

$$\text{div } h(r) = 4\pi M \frac{1}{\epsilon} \text{grad } \epsilon(r) + \frac{1}{\epsilon} h \cdot \text{grad } \epsilon(r) - 4\pi \text{div } M(r). \quad (1.12)$$

Lengthy calculation leads to

$$M(p, q, a, b) = \frac{h(p, q)}{2\pi \left[\sigma \left(\frac{p, q, 0}{a} \right) - \sigma \left(\frac{p, q, 0}{b} \right) \right]}. \quad (1.26)$$

Card 2/4

Some problems arising in the ...

S/057/62/032/011/007/014
B104/B102

$$\sigma\left(\frac{p, q, z}{z}\right) = \sigma_0\left(\frac{p, q, z}{z}\right) - \sum_s a_s \sigma_0\left(\frac{p, q, z}{z_s}\right) \sigma^{(s)}. \quad (1.27)$$

where the n quantities: $\sigma^{(s)}$ are determined from the system of n linear algebraic equations

$$\sigma^{(s)} - \sum_{s'} a_{s'} \sigma_{(ss')} \sigma^{(s')} = \sigma_0^{(s)}. \quad (1.28).$$

This expression is discussed for the three special cases mentioned above, and it is shown that the value $M_0(x, y, a, \Delta)$ of the density of magnetization required for the production of a given field in a homogeneous magnet is important. a is the distance to the midplane $z = 0$. If $M_0(x, y, a, \Delta)$ is known as an analytic function it becomes possible to arrive at the exact expression for the equivalent

Card 3/4

Some problems arising in the ...

S/057/62/032/011/007/014
B104/B102

magnetization when account is taken of the effect of the interfaces for infinitely thin current layers ($\Delta \rightarrow 0$) situated very near the interface. The corrections for finite thickness Δ of the current layers and for the finite distance d of the current from the interfaces can be obtained by successive approximations.

SUBMITTED: May 3, 1961

Card 4/4

5(1), 18(7)

AUTHORS:

Kvyatkovskaya, G. V., Vyalov, N. N.

SOV/32-25-4-55/71

TITLE:

Attachment to the "Reichert" Microscope for Automatically Shifting Ground Sections (Prisposobleniye k mikroskopu "Reykhert" dlya avtomaticheskogo peredvizheniya shlifov)

PERIODICAL:

Zavodskaya Laboratoriya, 1959, Vol 25, Nr 4, p 495 (USSR)

ABSTRACT:

An apparatus was developed which renders it possible to shift automatically ground sections under the microscope so that 1200 fields, i.e. a sample surface of 15 x 65 mm may be viewed successively. The apparatus (Fig) is mounted with the stage of the microscope and consists basically of a small device operated by an electric motor. The shifting of the ground section is done by means of two pairs of worm threads transmitting the rotation of the electric motor via a cog wheel. As soon as the section has shifted by 15 mm a lengthwise shift by 0.8 mm follows, etc. The apparatus described has already been used for five years in the metallographic laboratory of the Kuznetsk Metallurgical Kombinat. There is 1 figure.

Card 1/2

Attachment to the "Reichert" Microscope for Automatically SOV/32-25-4-55/71
Shifting Ground Sections

ASSOCIATION: Kuznetskiy metallurgicheskiy kombinat (Kuznetsk Metallur-
gical Kombinat)

Card 2/2

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 12, 15-57-12-17264
p 81 (USSR)

AUTHOR: Vyalov, O. S.

TITLE: Brief Survey of Facies and Depositional Characteristics
of Sediments in Western Regions of Ukrainian SSR
(Korotkiy oglyad fatsiy i umov utvorenniya osadkiv y
zakhidnikh oblastyakh UkrSSR--in Ukrainian)

PERIODICAL: Nauk. zap. L'vivs'k. prirodzn. muzeyu AN URSR, 1955,
Vol 4, pp 5-19

ABSTRACT: Bibliographic entry

Card 1/1

15-57-12-16794
Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 12,
p 15 (USSR)

AUTHOR: Vyalov, O. S.

TITLE: The Paleogene of the Southern Shore of the Kara-Bogaz-Gol (Paleogen yuzhnogo poberezh'ya Kara-Bogaz-Gola)

PERIODICAL: Tr. In-ta geol. AN TurkmSSR, 1956, Vol 1, pp 163-171

ABSTRACT: A brief description of the Paleogene razrez (section) in the region of the southern shore of the Kara-Bogaz-Gol is given on the basis of work done in 1938. 1) A variegated marl formation, 34 m thick, rests on Danian limestones. White marls predominate in the lower part, red spotted marls in the middle part, and variegated marls with layers of calcareous clays in the upper part. Fossils have not been found in the formation. 2) Next occurs a white marl formation, 23 m

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15-57-12-16794

The Paleogene of the Southern Shore (Cont.)

thick, which is divided into three members on color and lithology. 3) A brown (fish) horizon, 23 m thick, consists of shaly marly clay and thinly platy argillaceous marl, with thin layers of "gilyaba" (a bleaching clay) in the lower part (the lower boundary of the horizon is placed at the first appearance of a layer of gilyaba). Large quantities of small fish scales are present in the sequence. 4) A formation of green calcareous clay, 20 m thick, produces platy rubble; the calcareous content decreases upward. 5) A formation of green clays and sands, approximately 50 m thick, occurs next in the section. The number and thickness of sand layers reach their greatest values in the middle part of the unit. 6) A formation of green platy clays, approximately 100 m thick, contains small fish scales and, in the upper part, indeterminate pelecypod imprints. In addition, the author compares the Kizyl-Kup razrez (section) with other regions and gives a table showing the comparison of the sections.
Card 2/2

V. A. Levitskaya

VYALOV, O.S., akademik.

A comparative study of the Paleogene in Central Asia, the Caucasus
and the Crimea. Dokl. AN SSSR 110 no.4:631-633 O '56.

(MIRA 10:1)

1. Akademiya nauk USSR.

(Geology, Stratigraphic)

VJALOV, G.N. VJALOV, G.N.

SUBJECT USSR / PHYSICS CARD 1 / 2 PA - 1781
 AUTHOR VJALOV, G.N.
 TITLE The Anomalous Magnetic Moment of Nucleons.
 PERIODICAL Zhurn. eksp. i teor. fis, 31, fasc. 4, 620-624 (1956)
 Issued: 1 / 1957

In the present work the anomalous magnetic moment of nucleons is computed in consideration of their excited states and on the basis of the semi-phenomenological theory of the interaction between pions and nucleons (I.E. TAMM et al, Zhurn. eksp. i teor. fis, 26, 649, 1954). All quantities are given with FEYNMAN'S denotations.

At first the rather voluminous LAGRANGIAN of the system of nucleons and mesons in the electromagnetic system for the symmetric pseudoscalar meson theory with mixed pseudoscalar and pseudovectorial coupling of the meson field with the nucleon field is given. By variation of the LAGRANGIAN with respect to Ψ and $\bar{\Psi}$ in the case of the validity of the additional condition $\bar{\Psi} \gamma_{\mu} \Psi = 0$, equations for the wave functions Ψ and $\bar{\Psi}$ are obtained. These equations are transformed and solved by FEYNMAN'S method with the help of the inverse operator

$(L^{-1})_{\alpha\beta} = K_{\alpha\beta}$. - There follows the computation of the matrix elements: Here the contribution made by the diagrams represented by a drawing to the anomalous magnetic moment of the nucleons is computed. Because of the great singularity of the inverse operator $K_{\mu\nu}$ the matrix elements diverge considerably (divergence of the fourth order). This divergence is eliminated by the introduc-

Žurn.eksp.i teor.fis,31,fasc.4,620-624 (1956) CARD 2 / 2 PA - 1781

tion of FEYNMAN'S cut-off factors. In order to simplify computations, cutting-off is not carried out within the entire matrix element at one and the same time but separately in each summand.

Numerical results; discussion: The numerical result for the anomalous magnetic moment $\delta\mu$ depends on the sign of the constant g of the pseudovectorial coupling. When using the values $g^2=0,2$; $g_1^2=0,13$; $s = 2$; $M_1=m+2,25\mu$; $\varepsilon = 1,61$ one finds for $g > 0$ and $\lambda \sim m$ for the anomalous magnetic moment of the proton and neutron $\delta\mu_p \sim 1,5\mu_0$; $\delta\mu_N \sim -1,3\mu_0$ respectively. With an increasing λ the absolute values of $\delta\mu_p$ and $\delta\mu_N$ increase, on which occasion their relation remains approximately unchanged. Thus it is possible, by a suitable selection of the cut-off parameter λ , to attain quite good agreement between theory and experiment. Approximately the same conclusions were arrived at by A.KANAZAWA and M.SUGAWARA, Prog.Theor.Phys.,11, 231 (1954), but the author describes his own computations as being more consistent and more accurate. Thus, the additional interaction between nucleons and the electromagnetic field (constant ε) was not taken into account by the above cited work. The contribution made by this additional interaction towards the anomalous magnetic moment is of the same order as other types of interaction and must therefore be taken into account.

INSTITUTION: Physical Institute "P.N.LEBEDEV" of the Academy of Science in the USSR.

"Anomalous Magnetic Moment of Nucleons," by G. N. Vyalov, Physics Institute imeni P. N. Lebedev, Academy of Sciences USSR, Zhurnal Eksperimental'noy i Teoreticheskoy Fiziki, Vol 31, No 4 (10), Oct 56, pp 620-624

"The anomalous magnetic moment is computed with account of excited states with a spin of $3/2$ and an isotopic spin $3/2$. Diverging expressions are obtained which can be regularized by means of Feynman multipliers.

"It is shown that a cutoff factor can be chosen to yield agreement between theory and experiment." -- Author's abstract

Sum 1274

ACCESSION NR: AP4036530

AUTHOR: Vyalov, G. N.

B/0089/64/016/005/0442/0444

TITLE: Computation of phase relationships in a cyclotron

SOURCE: Atomnaya energiya, v. 16, no. 5, 1964, 442-444

TOPIC TAGS: cyclotron phase shift, magnetic field drop, cyclotron ion energy, phase shift computation, cyclotron

ABSTRACT: The equation for the phase shift in the cyclotron contains (in addition to the universal constants) the final ion energy, the phase, and the amplitude of the accelerating potential. The parameters of the cyclotron can easily be computed if the magnetic field changes parabolically along the radius, or linearly as a function of the relative ion energy (in comparison with the final energy). The author found it convenient, in his analysis of numerous cases of magnetic drop, to approximate the latter with linear segments. Measurements show that the magnetic field of the cyclotron of the Laboratory for Nuclear Reactions of the Consolidated Institute for Nuclear Investigations can be closely approximated by three straight lines. Orig. art. has: 1 figure, 22 equations.

Card 1/2

ACCESSION NR: AP4036530

ASSOCIATION: None

SUBMITTED: 20Jul63

DATE ACQ: 03Jun64

ENCL: 00

SUB CODE: 11 NP 3

NO REF SOV: 002

OTHER: 000

Card 2/2

L 20985.66 EWT(1)/EWT(m)/T AT
ACCESSION NR: AP5020260

UR/0367/65/002/001/0112/0116

AUTHORS: Vynlov, G. N.; Fiks, M. M.

TITLE: On the acceleration of particles with a variable charge in electrostatic field

35
32
B

SOURCE: Yadernaya fizika, v. 2, no. 1, 1965, 112-116

TOPIC TAGS: electrostatic field, electrostatic acceleration, ion beam, beam velocity

ABSTRACT: The possibility of high-current acceleration of heavy ions by changing the ion charge was investigated analytically. The nonpotential characteristic of the product ZE under the integral of the energy equation is shown by

$$\Delta W = W_2 - W_1 = e \int_0^r Z(E dr)$$

The optimum potential required to impart the maximum energy to the accelerating ion beam with given energy W is calculated and is given by

$$V_0 = [Z_i(W) - Z_e(W)] / 2eZ_i(W)Z_e'(W)$$

The various mechanisms for causing intensity losses in the multiple acceleration

Card 1/2

L 20985-66

ACCESSION NR: AP5020260

scheme described above are listed. For a constant ΔW the mean multiple scattering angle at small angles is given by $\theta_m^2 = \text{const} / \Delta W \cdot W_0$

The scattering cross section for the large angle aperture accelerator is given by

$$\sigma(\theta_L) = \frac{\pi e^4 Z_0^2 Z_1^2 \cos \theta_L}{W^2 \sin^2 \theta_L} \left[1 - \frac{A_0^2}{A_1^2} \sin^2 \theta_L \right]^{1/2}$$

and the beam intensity by

$$\frac{I}{I_0} = \left[\sqrt{\frac{\pi}{2}} \int_0^{L/(v\gamma)^{1/2}} \exp\left(-\frac{t^2}{2}\right) dt \right]^2 - P(\theta_L)$$

It is shown that for all elements high intensity ion beams can be obtained with the limiting energy $W_n = 0,125 A_0 Z_0^{1/2} M \alpha c$. "The authors express their gratitude to

corresponding member of the AN SSSR, G. N. Flerov, for his continuous interest in the work and to Professor M. I. Podgoretskiy for his valuable advice and evaluation of the problem." Orig. art. has: 13 formulas. [04]

ASSOCIATION: Ob'yedinenny Institut yadernykh issledovaniy (Joint Institute of Nuclear Research)

SUBMITTED: 17Jan65

ENCL: 00

SUB CODE: NP

NO REF SOV: 002

OTHER: 003

ATD PRESS 4025

Card 2/2 BSK

VYALOV, G.N.

Calculation of phase relations in a cyclotron. Atcz.energ.
16 no. 5:442-444 My '64. (MIRA 17:5)

S/057/62/032/003/004/019
B125/B102AUTHOR: Vyalov, G. N.

TITLE: Method of calculating the shape of a magnet from a given field

PERIODICAL: Zhurnal tekhnicheskoy fiziki, v. 32, no. 3, 1962, 287 - 293

TEXT: The author determines the shape of one-dimensionally magnetized iron shims which produce a given z-component of the magnetic field in the central plane of a magnet. With known magnetization $\vec{M}(\vec{r})$ (e. g., with homogeneous magnetization of the iron along the z-axis) the lower boundary of the iron shims applied to the plane $z = z_0$ and changing the field strength in the central plane by $\delta \vec{H}(x, y)$ is sought. Owing to the disturbing effect of the pole boundaries the author first determines the shape of the magnetic shims from the field produced by them, and then takes account of the effect of the poles. From the scalar potential

$$(1,4) \quad \Phi(r) = \iint_{-\infty}^{\infty} dx' dy' M(x', y') \left[\frac{1}{|r - r_0|} - \frac{1}{|r - r_1|} \right],$$

Card 1/4

Method of calculating ...

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B125/B102

the following integral equation is obtained for the z-component of the magnetic field $\delta \vec{H} = -\text{grad} \Phi$ in the central plane $z = 0$:

$$\delta H(x, y) = \iint_{-\infty}^{\infty} dx' dy' M(x', y') \left[\frac{\partial}{\partial z} \left(\frac{1}{|r-r'|} - \frac{1}{|r-r_0|} \right) \right]_{z=0} \quad (1,5)$$

\vec{r}_0 and \vec{r}_1 denote points in the planes $z = z_0$ and $z = z_1$, and $M(x, y) = M_z(x, y)$. The sought thickness $\Delta(x, y, z_0) = z_0 - z_1(x, y)$ is much smaller than the distance z_0 from the central plane. For this reason, the expression under the integral sign of (1,5) is expanded into a power series of $\Delta(x', y', z_0) / \sqrt{(x-x')^2 + (y-y')^2 + z_0^2}$ (2,3), and (1,5) is transformed to

$$(2,4) \quad \iint_{-\infty}^{\infty} dx' dy' K(x-x', y-y', z_0) f(x', y', z_0, \epsilon) M(x', y') = \\ = sh(x, y) + Q(x, y, \epsilon),$$

Card 2/4

S/057/62/032/003/004/019
B125/B102

Method of calculating ...

where ϵ is a small parameter: $\Delta(x, y, z_0) = \epsilon f(x, y, z_0, \epsilon)$, $\delta H(x, y) = \epsilon h(x, y)$ (2,5). From the linear integral equation for $f_n(x, y, z_0)$,

$$\mathfrak{M}(x, y, z_0) = \frac{1}{(2\pi)^2} \int_0^\infty d\lambda e^{\lambda z_0} \iint_{-\infty}^\infty dx' dy' J_0(\lambda \rho) h(x', y'). \quad (3,6) \text{ is obtained}$$

for the thickness of the magnetized layer, by the Fourier method. For the one-dimensional case

$$(3,7) \quad \mathfrak{M}(x, z_0) = \frac{1}{(2\pi)^2} \iint_{-\infty}^\infty dp \frac{e^{i|p|x + ipz}}{|p|} \int_{-\infty}^\infty dx' h(x') e^{-i|p|x'}$$

is obtained, in polar coordinates

$$(3,8), \quad \mathfrak{M}(r, \varphi, z_0) = \frac{1}{(2\pi)^2} \int_0^\infty d\lambda e^{\lambda z_0} \int_0^\infty r' dr' \int_0^{2\pi} d\varphi' J_0(\lambda \rho) h(r', \varphi').$$

and in the axisymmetrical case

$$(3,9). \quad \mathfrak{M}(r, z_0) = \frac{1}{2\pi} \int_0^\infty d\lambda e^{\lambda z_0} J_0(\lambda r) \int_0^\infty r' dr' J_0(\lambda r') h(r').$$

Card 3/4

Method of calculating ...

S/057/62/032/003/004/019
B125/B102

The function $M(x, y, z_0)$, which cannot be represented in compact form with $z_0 > 0$ but with $z_0 < 0$, can be analytically continued into the region $z > 0$.

Thus, the final result $\mathfrak{M}(x, z_0) = \frac{1}{2\pi i (n-1)} \left\{ \frac{1}{[x+i(a-z_0)]^{n-1}} - \frac{1}{[x-i(a-z_0)]^{n-1}} \right\}$, (4,9)

is obtained for the region $0 < z < a$. The effect of the poles on the field of the shims and the convergence in the successive approximation to the thickness of the sought layer must also be determined. V. V. Babikov and I. I. Royzen are thanked for discussions. There are 6 references: 2 Soviet and 4 non-Soviet.

SUBMITTED: April 14, 1961

Card 4/4

VYALKOV, N.A.

Perforation diagram change by SSP-41/4" perforators. Razved.i prom.geofiz.
no.13:63-64 '55. (MLRA 9:7)
(Oil well drilling--Equipment and supplies)

ACC NR: AP6029011

SOURCE CODE: UR/0413/66/000/014/0009/0009

INVENTOR: Vyalov, N. N.; Finagin, P. M.; Sorokin, A. N.; Tartakovskiy, I. K.; Belyakov, L. S.

ORG: None

TITLE: Pipe rolling mill. Class 7, No. 183693 [announced by the Elektrostal' Heavy Machine Building Plant (Elektrostal'skiy zavod tyazhelogo mashinostroyeniya)]

SOURCE: Izobret prom obraz tov zn, no. 14, 1966, 9

TOPIC TAGS: pipe, rolling mill

ABSTRACT: This Author's Certificate introduces: 1. A pipe rolling mill consisting of a housing with drive and input and output equipment. The housing is equipped with pilger mill roller and automatic mill roller assemblies. 2. A modification of this device for producing tubes by the pilger method. The unit has a feed mechanism, a mechanism for controlling mandrel cooling and transfer, and a lifting trough on the input side. The output side of the mill is equipped with a lift table. 3. A modification of this unit for automatic pipe rolling using master rollers on the input side of the mill to replace the hoisting trough. The unit also has a fixed trough, while a single assembly consisting of wiring, crosspiece and brake-centering unit is mounted on the output side of the mill.

SUB CODE: 13/ SUBM DATE: 10Jan64

Card 1/1

UDC; 621.771.28

PROCESSING AND PROPERTIES INDEX

14

Hydrogeological explorations of the steppe zone south of the Emba River and of the northern parts of the Usturt. (U. Vialov. *Trans. Geol. Prospecting Service U. S. S. R.* 61, 1-24(1931); *Neues Jahrb. Mineral. Geol.* 1934, Referate II, 92-3.—Numerous chem. analyses of waters. I. F. Schairer

430-55.4 METALLURGICAL LITERATURE CLASSIFICATION

REGION: SYR-DARYN

CLASSIFICATION: 622.617.04

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Translation E-5802 in Branch #5

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~~Translating~~ E-5802 in Branch #5

1T91

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1. Diysniy chlen Akademii nauk Ukrain's'koi RSR; 2. L'viv's'kiy viddil Institutu geologichnikh nauk Akademii nauk Ukrain's'koi RSR.

(Carpathian Mountains--Geology, Stratigraphic)

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Title : About a new discovery of graptolite in Silurian era formation in Podolie

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