TATALOV, A.

Skorostnoe stroitel'stvo linii Akmolinsk-Kartaly. [The speed-up construction of the Akmolinsk-Kartaly line]. (Sots. transport, 1940, no. 3, p. 26-33).
[illegible] 7.S6

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress Reference Department, Washington, 1952, Unclassified.

PATALEEV, A. V. and CHERNYSHEV, M. A. ed.

Podgotovka zheleznodorozhnogo puti k zime. 3 izd. [Preparing railroad tracks for winter operation]. [Moskva], 1941. 136 p. (Also: 4. ed., 1942, 116 p.).

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress Reference Department, Washington, 1952, Unclassified.

PATALEYEV, A.V., prof., otv. red.; NAUMOV, P.M., tekhn. red.

[Collection of articles on frozen-ground engineering] Sbornik rabot po inzhenernomu merzlotovedeniiu. Vladivostok, 1959. 60 p. (MIRA 14:9)

1. Akademiya nauk SSSR. Dal'nevostochnyy filial, Vladivostok.
(Frozen ground)

PATALEYEV, A.V., professor (Leningrad)

Predatory squirrel. Priroda 46 no.3:117 Mr '57. (MLRA 10:3)
(Leningrad Province--Squirrels)

PATALEYEV, A.V.; ALAYEV, G.S.

Degree of foundation heaving forces in Khabarovsk. Osn., fund. i mekh. grun. 7 no. 6:24-26 '65. (MIRA 18:12)

PATALEYEV, Aleksandr Vasil'yevich, doktor tekhnicheskikh nauk, professor; LIVSHITS, S.M., redaktor; KAYDALOVA, M.D., tekhnicheskiy redaktor

[Waterproofing of foundations in the Far East] Gidroizoliatsiia fundamentov na Dal'nem Vostoke. [Khabarovsk] Khabarovskoe knizhnoe izd-vo, 1957. 91 p. (MLRA 10:7)
(Foundations) (Soviet Far East--Waterproofing)

PATALEYEV, A.V.

Deformations of buildings and structures under natural conditions in the Far East. Stroi. v raion. Vost.Sib. i Krain.Sev. no.3:40-51 '62. (MIRA 17:12)

ARBUZOV, S.Ya.; BAZANOV, V.A.; NEKACHALOVA, I.Ya.; PATALOVA, V.N.; PETELINA, V.V.; SHAMOVA, E.K.

Distribution of sulfur mercamine in the organs and tissues of irradiated and non-irradiated animals. Med.rad. no.5:62-66 '61. (MIRA 14:11)

1. Iz otdela radiobiologii (zav. - prof. S.Ya. Arbuzov) Instituta eksperimental'noy meditsiny AMN SSSR.
(ETHYLAMINE) (RADIATION PROTECTION)

PATALOVA, V.N.

Effect of insulin on the course and outcome of radiation sickness. Farm.i toks. 22 no.6:555-557 N-D '59. (MIRA 13:5)

1. Otdel radiobiologii (zav. - prof. S.Ya. Arbuzov) Instituta eksperimental'noy meditsiny AMN SSSR.
(RADIATION INJURY exper.)
(INSULIN pharmacol.)

PATALOVA, V.N.

Antinarcotic action of analeptics in radiation sickness.
Farm. i toks. 26 no.1:84-91 Ja-F '63. (MIRA 17:7)

1. Laboratoriya radiobiologii (zav. - prof. S.Ya. Arbuzov) Instituta eksperimental'noy meditsiny AMN SSSR.

PATAMAN, A., inzh.

Mine cars for timber haulage. Mast.ugl. 8 no.6:8 Je '59.
(MIRA 12:10)

(Mine railroads--Cars)

PATAMAN, A.

Car for the transportation of ballast. Mast. ugl. 7 no.1:13 Ja '58.
(MIRA 11:2)

1. Glavnyy inzhener konstruktorskogo byuro Kiselevskogo mashinostroitel'nogo zavoda.
(Mine railroads--Cars)

KONYUCHENKO, V.S., inzh.; PATAMAN, A.P., inzh.; FRIDMAN, O.A., inzh.

New method of connecting rubberized fabric pressure hoses.
Ugol' Ukr. 9 no.12:18-19 D '65. (MIRA 19:1)

1. Ukrainskiy nauchno-issledovatel'skiy institut plasticheskikh mass.

PATAMANSKA, El.

Role of pharmaceutic centers managed by feldshers and physicians
Farmatsiia, Sofia 5 no.3:8-10 My-Je '55.
(PHARMACY,
in Bulgaria, pharm.centers managed by feldshers & physicians)

PATAN, I.; DUMITRESCU, I.

Great strides toward the victory of communism. p. 442.

INDUSTRIA USOARA. (Asociatia Stiintifica a Inginerilor si Technicienilor din Romînia si Departamentul Industriei Usoare din Ministerului Industriei Bunurilor de Consum) Bucuresti, Rumania. Vol. 5, no. 12, Dec. 1958.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 6, June 1959.
UNCL

PATAN, I.; STEFANESCU, St.

"The economy, organization, and planning of socialist industry" by [conf. univ.] Pintilie Constantin. Reviewed by I. Patan, St. Stefanescu. Industria usoara 10 no.5:219-220 My '63.

VELEA, I.; PATAN, I.; MARCU, N.

"Economy, organization, and planning of socialist industry" by Constantin Pintilie. Vols. 1-3. Reviewed by I. Velea, I. Patan, N. Marcu. Probleme econ 16 no.9:139-145 S '63.

PATAN, Ion. econ.; STEFANESCU, Stefan, cand. in st. econ.

Continuous improvement of the economic activity of the light industry enterprises. Industria usoara 10 no.12:522-529 D'63.

1. Secretar general al Ministerului Industriei Usoare (for Patan). 2. Sef de birou in cadrul Ministerului Industriei Usoare (for Stefanescu).

PATAN, Ion; STEFANESCU, Stefan

"Economics, organization, and planning of the socialist industry" by Constantin Pintilie. Vol.1-3. Reviewed by Ion Patan, Stefan Stefanescu. Ind text Rum 14 no.4:187-188 Ap '63.

SUBJECT USSR/MATHEMATICS/Theory of functions CARD 1/2 PG - 620
AUTHOR POTAPOV M.K.
TITLE On theorems of Jackson's type in the metric $\mathcal{L}_p$.
PERIODICAL Doklady Akad.Nauk 111, 1185-1188 (1956)
reviewed 2/1957

Let the class $H_p^{(r+\alpha)}(M;[a,b])$ consist of functions $f(x)$ being measurable on $[a,b]$, possessing an r-th derivative integrable in p-th power and on $[a,b]$ for every h satisfying the condition

$$\left(\int_c^d |\varphi(x+h)-\varphi(x)|^p dx\right)^{1/p} \leq M|h|^\alpha , \qquad 0<\alpha\leq 1,$$

where $a\leq c<d\leq b$ and from $x\in[c,d]$ there follows that $x+h\in[a,b]$; M does not depend on c,d and h. Let further $E_n(f(x);[a,b])_{\mathcal{L}_p}$ be the best approximation of $f(x)$ on $[a,b]$ by polynomials of n-th degree in the metric $\mathcal{L}_p$. The following theorems are proved:

1. If $f(x)\in H_p^{(r+\alpha)}(M;[a,b])$, then

$$E_n(f(x);[a,b])_{\mathcal{L}_p} \leq \frac{CM}{n^{r+\alpha}} .$$

$$\left(\int_{-1}^{1} \left|\frac{f(x)-T_n(x)}{\left(\sqrt{1-x^2}+\frac{1}{n}\right)^r}\right|^p dx\right)^{1/p} \leq \frac{CM}{n^{r+\alpha}} .$$

Similar theorems are proved for the functions of the class $H_p^r(M;[a,b])$. By the existence of the r-th derivative which is integrable on $[a,b]$ in the p-th power with the weight function $[(a-x)(x-b)]^{-1/2}$ it is marked if a function belongs to this class.

INSTITUTION: Educational Institute, Ivanovo.

P[illegible]V, V. [illegible]

The commercial operation of railroads in the [illegible]. A textbook for railroad institutes. Moskva, Gos. Transp. zhel-dor. izd-vo, 1950. 415 p. (51-[illegible])

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001239[illegible]

KUPRAVA, Nodar Mikhaylovich; PATARAIA, B., red.; KUTSISHVILI, G., tekhn.red.

[Tiflis plastics manufacturing plant] Tbilisskii zavod "plastmass." Tbilisi, Gos.izd-vo "Sabchota Sakartvelo," 1959. 66 p. (MIRA 13:7)
(Tiflis--Plastics industry)

COUNTRY : USSR

CATEGORY : Cultivated Plants. Fruits. Berries. Nuts. Tea.

ABS. JOUR. : RZhBiol., No. 4, 1959, No. 15839

AUTHOR : Petrunov, D.T.

INST. : All-Union Sci.Res.Inst.of Tea and Subtrop.Cultures

TITLE : Tea Cultivation in Certain Provinces of the Chinese Peoples Republic.

ORIG. PUB. : Byul. Vs. n.-i. in-ta chay i subtrop. kul'tur, 1957, No.2, 141-153

ABSTRACT : As a result of studying the condition of tea plantations in the CPR, the author became familiar with the system of primary soil tilling under tea cultivation, with the founding of leaf-reaping tea plantations and nurseries of tea seedlings, with tea seed growing and means of picking tea leaf. A depression between two hills is selected for founding tea plantations in the provinces of Anhwei and Chekiang. Solid primary tillage of the soil is done with

Card: 1/3

Card:

PATVAKAVA D.T.

2

V Brief review of the scientific research work of the Institute in 1952. D. T. Patarava. *Bjull. Vsesoyuz. Nauch.-Issledovatel. Inst. Chaya i Subtrop. Kul'tur* 1953, No. 1, 3-20; *Referat. Zhur., Khim.* 1954, No. 45749. M. Hosch

C11

PATARAVA, D. T.

Pataraya, D. T.: "On the biology of the tea bush in connection with its pruning", Byulleten' Vsesoyuz. nauch.-issled. in-ta chaya i subtrop. kul'tur, 194[illegible], No. 4, p. 88-101.

SO: U-3042, 11 March 53, (Letopis 'nykh Statey, No. 10, 1949).

PATARAVA, D. T.

Pataraya, D. T.: "The characteristics of tea-bush growth after pruning", Byulleten' Vsesoyuz. nauch.-issled. in-ta chay i subtrop. kul'tur, 1948, No. 4, p. 102-13.

SO: U-3042, 11 March 53, (letopis 'nykh Statey, No. 10, 1949).

PATARAVA, D.T., kand.sel'skokhoz.nauk

Tea growing in some provinces of the Chinese People's Republic. (MIRA 15:5)
Biul.VNIICHiSK no.2:141-153 '57.
(China--Tea)

PATARAVA, D.T.

USSR/General Division. Scientific Institutions. A-3

Abs Jour: Ref. Zh.-Biol., No 17, 1957, 72413

Author : D. T. Patarava
Inst : —
Title : Short Report on Scientific Research Work of the VNIIChiSK (All-Union Scientific Research Institute of Tea and Subtropical Crops) for 1954.

Orig Pub: Byul. Vses. n.-i. in-ta chaya i subtrop. kultur, 1955, No 1, 3-30

Abstract: New select grades of tea and citrus plants have been investigated on the basis of their area classification, and in connection with the protection of the citrus fruits from diseases (mainly mal secco) and pests. Data is given for the yield capacity and quality of selected grades of tea during the time of study. New methods of vegetative hybridization have been developed: a method to obtain new varieties through reciprocal grafting of leaves of different

Card : 1/2 -3-

PATARAYA, A.

Charged particle scattering in the Coulomb field [in Georgian with with summary in Russian]. Trudy Tbil. GU no.62:61-82 '57. (MIRA 11:7)

1.Tbilisskiy gosudarstvennyy universitet imeni Stalina, kafedra obshchey fiziki.
(Electron--Scattering) (Wave mechanics)

TATARAKI, A.V.

Propagation of waves of final amplitude in a plasma allowing for the effect of charge separation. Izv.vys.ucheb.zav.; radiofiz. 8 no.1:27-33 '65. (MIRA 18:6)

L 63112-65 EWT(1)/EWT(m)/EPF(n)-2/EWG(m)/EPA(w)-2 DIAAP/IJP(c) AT
ACCESSION NR: AP5020374 UR/0141/65/008/003/0628/0629
533.913

AUTHOR: Pataraya, A. D.; Svimonishvili, V. I.

TITLE: Bremsstrahlung from a plasma

SOURCE: IVUZ. Radiofizika, v. 8, no. 3, 1965, 628-629

TOPIC TAGS: plasma physics, bremsstrahlung, relativistic plasma, plasma radiation

ABSTRACT: The authors examine bremsstrahlung from a plasma, taking into account thermal motion of electrons and ions and directional motion of electrons, but not the effect of coherent radiation. Electron bremsstrahlung from a plasma is examined in the non-relativistic case considering the thermal motion of electrons and ions. The total bremsstrahlung power can be computed by methods such as those cited by Kogan and Migdal in "Plasma Physics and the Problem of Controlled Thermonuclear Reactions," *Izd. AN SSSR*, Moscow, 1958. A formula for the total radiation power is given. Next, bremsstrahlung is examined in the non-relativistic case considering the directional motion of electrons. The velocity distribution function for electrons is Maxwellian in a system moving with a given velocity. An expression for total bremsstrahlung power is presented for this case. At a constant temperature

Card 1/2

L 63112-65

ACCESSION NR: AP5020374

power increases with beam velocity. In the third instance, the bremsstrahlung of a relativistic beam of electrons in a plasma is investigated and a distribution function normalized in momentum space is presented. An expression is found for the bremsstrahlung of a highly relativistic beam not, however, at a relativistic temperature. Orig. art. has: 6 formulas.

ASSOCIATION: Institut fiziki AN Gruz. SSR (Institute of Physics, AN Gruz. SSR)

SUBMITTED: 12Oct64 ENCL: 00 SUB CODE: NP, ME

NO REF SOV: 002 OTHER: 000

Card 2/2

PATARAYA, A.D. (Tbilisi)

Propagation of a solitary wave in a plasma along a magnetic field. Prikl. mat. i mekh. 27 no.1:85-90 Ja-F '63. (MIRA 16:11)

PATARAYA, A.D.

Instability of a solitary wave moving in a plasma along a magnetic field. Zhur. tekh. fiz. 33 no.4:412-414 Ap '63. (MIRA 16:9)

1. Institut fiziki AN Gruzinskoy SSR.
(Waves) (Plasma (Ionized gases)) (Magnetic fields)

PATARAYA, A.D.

Structure of a solitary wave moving across a magnetic field. Zhur. tekh. fiz. 34 no.4:617-619 Ap '64. (MIRA 17:4)

L 15060-65 EWT(1)/EWG(k)/EPA(sp)-2/EPA(w)-2/EEC(t)/T/EEC(b)-2/EWA(m)-2 Pc-4/
Pz-6/Pab-10/Pi-4 IJP(c)/AEDC(b)/SSD(b)/RAEM(a) AT
ACCESSION NR: AP4045269 S/0057/64/034/009/1593/1596

AUTHOR: Pataraya, A.D.

B

TITLE: Propagation parallel to a magnetic field of waves of finite amplitude in a plasma

SOURCE: Zhurnal tekhnicheskoy fiziki, v34, no.9, 1964, 1593-1596

TOPIC TAGS: plasma wave propagation, plasma shock wave, magnetic field plasma effect

ABSTRACT: The author discusses the propagation of stationary one-dimensional waves of finite amplitude parallel to a magnetic field in a quasi-neutral plasma. Thermal motions are taken into account but collisions are neglected. The treatment is based entirely on earlier work of the author (ZhTF 32,584,1962), the results of which form the point of departure for the present discussion. Although the dispersion equation indicates the existence of fast and slow magnetoacoustic waves, the only possible stationary solitary wave is found to be a fast wave of compression. It is shown that the condition for the existence of such a wave is $M_T^2 > M_L^2 > 1$, where $M_T^2 = v^2/v_T^2$, $M_L^2 = 4m_i m_e v^2/(m_i + m_e)^2 v_A^2$, m_i and m_e are the ion and electron mass, re-

1/2

L 15060-65

ACCESSION NR: AP4045269

spectively, v_A is the Alfven velocity, v_T is the velocity of sound, and v is the propagation velocity. When $M_L^2 > M_T^2$, a shock wave is formed. The motions of the electrons and ions within the wave are discussed, and an expression is derived for the energy of the electric field within the wave. It is found that thermal effects reduce this energy provided $m_e T_e < m_i T_i$, where T_e and T_i are the electron and ion temperatures, respectively. Steady solitary waves and waves of finite length are distinguished, and conditions for the existence of the two types are discussed. Orig.art.has: 30 formulas and 2 figures.

ASSOCIATION: none

SUBMITTED: 27Jun63 ENCL: 00

SUB CODE: ME NR REF SOV: 004 OTHER: 003

2/2

S/0057/64/034/004/0617/0619

ACCESSION NR: AP4028947

AUTHOR: Pataraya, A.D.

TITLE: Structure of a solitary wave propagating transversely to a magnetic field

SOURCE: Zhurnal tekhnicheskoy fiziki, v.34, no.4, 1964, 617-619

TOPIC TAGS: plasma, solitary wave, plasma charge separation, solitary wave charge separation, transversely propagating solitary wave

ABSTRACT: The author discusses the propagation of a solitary wave transversely to an applied magnetic field in a cold plasma. In their treatment of the problem, J.H. Adlam and J.E.Allen (Phil.Mag.3,448,1958) showed that separation of charge occurs, but they did not take this fully into account in their solution. In the present paper, results of a perturbation calculation of the effect of charge separation are reported. The calculation was performed by the method employed by the author in her previous discussion of a solitary wave propagating parallel to the magnetic field (A.D.Pataraya,ZhTF 33,1315,1963). All quantities involved in the problem are expanded in powers of $(v/c)^2$, where v is the wave propagation velocity, c is the velocity of light, and m is the ratio of the electron mass to the ion mass. The first two

Card 1/2

PATARAYA, A.D.

Structure of weak shock waves with allowance for the Larmor ion radius. Zhur. eksp. i teor. fiz. 35 no.2(8)200-204 F '65.

(MIRA 18:1)

S/040/63/027/001/010/027
D251/D308

AUTHOR: Pataraya, A.D. (Tbilisi)

TITLE: The propagation of an isolated wave in a plasma along the magnetic field

PERIODICAL: Prikladnaya matematiki i mekhanika, v. 27, no. 1, 1963, 85-90

TEXT: The author considers a solitary wave propagated along a magnetic field in a two-component quasi-neutral plasma with no twin-collisions. The basic equations are derived from Maxwell's equations, and it is shown that, for an isolated wave to exist, the function

$$\psi^2 \geqslant \frac{H_x^2 + h_y^2}{8\pi n_0 (m_i + m_e) v^2}$$

in the usual notation, with the suffixes i and e referring to ions and electrons respectively, must simultaneously satisfy

$$\psi^2 > 0, \quad (d\psi/dh)^2 > 0, \quad (dn'/dh)^2 > 0 \qquad (2.12)$$

Card 1/2

The propagation of an isolated wave ...

The charge and energy distributions of the wave in a cold plasma are investigated, and it is shown that positive charges are retained in the region of the density maximum, and that the plasma is positively charged in this region, while further from the maximum it is negatively charged. Formulas for the semi-amplitude and velocity of the wave are deduced, showing that these quantities depend on the magnetic field H_0 and on the temperature of the plasma. The condition of quasi-neutrality of the plasma is deduced in the form

$$v^2 \ll \frac{m_e}{m_i} c^2 , \qquad T_i \ll m_e c^2 . \qquad (5.2)$$

There is 1 figure.

SUBMITTED: February 20, 1962

Card 2/2

L 53011-65 EWT(d)/EWT(l)/EEC(k)-2/EPF(n)-2/EWG(m)/EEC-4/EPA(w)-2/EEC(t) Pn-4/
Pz-6/Po-4/Pab-10/Pg-4/Pt-7/Pi-4/Pl-4 IJP(c) WW/AT/WS-4
ACCESSION NR: AP5010673 UR/0141/65/008/001/0027/0033

AUTHOR: Pataraya, A. D.

TITLE: Finite-amplitude waves propagating in a plasma, with allowance for charge separation

SOURCE: IVUZ. Radiofizika, v. 8, no. 1, 1965, 27-33

TOPIC TAGS: plasma wave propagation, cold plasma, hot plasma, collisionless plasma, charge separation

ABSTRACT: The structure of waves of finite amplitude propagating along a magnetic field in a collisionless plasma is investigated by perturbation theory, with account of the charge separation effect. Such an investigation is helpful for an explanation of the structure of shock waves in a plasma. The author has previously investigated stationary waves propagating parallel to the magnetic field (ZhETF v. 32, 139 and 584, 1962), but in the earlier work the plasma was assumed quasi-neutral; it was shown at the same time that if the positive and negative charged particles in the plasma have different masses, they tend to separate in the plasma. The influence of this separation on the characteristic parameters of the plasma

Card 1/2

L 53011-65

ACCESSION NR: AP5010673

is analyzed in the present article for waves propagating along the magnetic field. The problem is solved by perturbation theory, using a procedure described by C. S. Marawetz (Phys. Fluids v. 4, 988, 1961). For cold plasma, the exact solution of the problem is obtained including terms of zero and first order in the expansion parameter, which is equal to $v^2/c^2\epsilon^2$ (v and c - velocity of the wave and light, respectively; $\epsilon^2 = m_e/m_i$, m_i and m_e - masses of the ion and the electron, respectively). For a hot plasma, the first-approximation correction terms are obtained by perturbation theory. The results are obtained in the form of corrections to the characteristic parameters of the plasma without charge separation. Orig. art. has: 34 formulas.

ASSOCIATION: None

SUBMITTED: 09Nov63 ENCL: 00 SUB CODE: ME

NR REF SOV: 006 OTHER: 004

Card 2/2

S/057/63/033/004/007/021
B187/B102

AUTHOR: Pataraya, A. D.

TITLE: Instability of a single wave travelling in a plasma along the magnetic field

PERIODICAL: Zhurnal tekhnicheskoy fiziki, v. 33, no. 4, 1963, 412 - 414

TEXT: A. A. Vedenov, Ye. P. Velikhov and R. Z. Sagdeyev studied (in Yadernyy sintez 1, 82, 1961, 100) the instability of a single wave moving in transverse direction to the magnetic field when mutual collisions in a quasineutral two-component plasma are lacking. The present paper deals with a single wave propagating along the magnetic field in the same way. The behavior of the kinetic energy of an ion is also studied within the single wave as a function of the change in the potential energy of the electric field. The equations describing the process are taken from a previous paper of the author (ZhTF, 32, 1962, 139, 584). Under the simplifying condition that the perturbed quantities differ only little from the unperturbed ones and are proportional to $\varphi(\xi)e^{i\omega t+ik_y y+ik_x x}$ and that the

Instability of a single wave...

interference frequency ω is much higher than the Larmor frequency of the electrons ω_H, a differential equation for the perturbation of the electron density is established by linearizing the present system of equations. For a plasma in which the unperturbed electron and ion temperatures have the same values and if the following inequality is valid $k_\perp^2 v_{El}^2 \gg \omega^2 \gg k_\perp^2 v_{Jo}^2$ then

$$\frac{\omega^2}{\omega_{Jo}^2} = 1 + \frac{(k_\perp^2 + k_\parallel^2)s_{El}^2}{\omega_{El}} - \frac{2\omega_{El}^2}{2\omega_{El}^2 - [k_\perp^2 v_{El}^2 - 2(k_\perp^2 + k_\parallel^2)s_{El}^2} \quad \ldots\ldots (6).$$

ω_{El} and ω_{Jo} are the Langmuir frequency and s_{El} is the unperturbed sound velocity. The following condition for the instability of a single wave is obtained herefrom: $v_{El}^2 \geqslant 4(1 + \frac{k_\parallel^2}{k_\perp^2})s_{El}^2$ which for $|k_\parallel| \ll k_\perp$ takes on the form $v_{El}^2 \geqslant s_{El}^2$. For $\frac{H_o}{4\pi n_o m_{Jo}} > 8\gamma v_{oT}^2$ the condition (8) can be fulfilled by choos-

Instability of a single wave...

ing the minimum value of the plasma density. γ denotes the adiabate exponent, which shall have the same value for the electron and ion gas and γv_{oT}^2 the sound velocity in the plasma, and η_0 the plasma density at infinity. At a far distance from the center of the single wave (8) is not fulfilled. The change in the energy of the ion as a function of the potential energy of the electric field is given by

$$e\varphi = (m_{J0} - m_{El}) \left\{ \frac{(1 - n'^2)v^2}{2} - \frac{\gamma v_{oT}^2}{2(\gamma - 1)} \left[(n')^{-\gamma+1} - 1 \right] \right\} \quad (10)$$

$n' = \frac{n_0}{n}$ is the plasma density in a concrete point. It has been found that $e\varphi$ is positive for compression waves. For a cold plasma the kinetic energy of the ion is always larger than $e\varphi$ for weak waves. As n' decreases also the kinetic energy of the ion decreases. As a result, the interior of the single wave is charged positively. For $n'_* = \frac{1}{\sqrt{2}}$ the kinetic energy of the ion is comparable to the potential energy. In this case the width of the positively charged region in the interior of the wave is

Card 3/4

Instability of a single wave...

$3\sqrt{\frac{m_{E1}c^2}{4\pi n_0 l^2}}$. For $n' \longrightarrow 0$ the ion density in the interior of the wave increases to infinity; the strong ion repulsion causes a "multi-flow" movement not described by the system of equation used as the basis. For a hot plasma similar considerations can be made. In this case the value of n_j^* is reduced.

ASSOCIATION: Institut fiziki AN Gruzinskoy SSR (Institute of Physics AS Gruzinskaya SSR)

SUBMITTED: April 9, 1962 (initially),
November 12, 1962 (after revision)

Card 4/4

34202
S/057/62/032/002/002/022
B104/B102

24.2120

AUTHOR: Pataraya, A. D.

TITLE: Propagation of nonlinear plasma oscillations along a magnetic field. I

PERIODICAL: Zhurnal tekhnicheskoy fiziki, v. 32, no 2, 1962, 139-144

TEXT: The author studied a cold, quasineutral two-component plasma which is located in a magnetic field and in which no pair collisions take place It is assumed that the oscillations propagate along the magnetic field with constant velocity v. The equation of motion of the ions and electrons of the plasma is integrated and the density fluctuations of the plasma and the magnetic field strength are determined. It is demonstrated that the wavelength of the plasma oscillations is longer than that of the oscillations of the magnetic field strength. The wavelengths of both types of oscillations are longer than $\sqrt{m_e c^2/4\pi n_0 e^2}$, where e and m_e are charge and mass of an electron, n_0 the undisturbed plasma density and c

Card 1/2

34202
S/057/62/032/002/002/022
B104/B102

Propagation of nonlinear plasma . .

the light velocity. The plasma is quasineutral if $v^2/c^2 \ll m_e/m_i$ is fulfilled, where m_i is the ion mass. There are 2 figures and 5 references: 4 Soviet and 1 non-Soviet The reference to the English-language publication reads as follows: P. Saffman J. Fluid Mech. 11, 16, 196:

SUBMITTED: March 24, 1961

Card 2/2

PATARAYA, A.D.

Propagation of nonlinear plasma oscillations along a magnetic field.
Zhur.tekh. fiz. 32 no.2:139-144 F '62. (MIRA 15:2)
(Plasma oscillations) (Magnetic fields)

PATARAYA, A.D.; LOMINADZE, D.G.

Generation of magnetohydrodynamic waves in an anisotropic plasma.
Zhur. tekh. fiz. 32 no.1:44-47 Ja '62. (MIRA 15:1)

1. Institut fiziki AN Gruzinskoy SSR.
(Magnetohydrodynamics) (Plasma (Ionized gases))

PATARAYA, A. D. Cand Phys-Math Sci -- (diss) "Elastic dispersion and bremsstrahlung of charged particles in Coulomb fields." Tbilisi, 1957. 8 pp (Tbilisi State Univ im I. V. Stalin), 100 copies (KL, 3-58, 95)

PATARAYA, A.D.

Calculating the effective cross section of bremsstrahlung taking into account the terms Z^2 and Z^3. Soob. AN Gruz.SSR 21 no.1:19-24 Jl '58. (MIRA 11:10)

1. Tbilisskiy gosudarstvennyy universitet im. Stalina. Predstavleno chlenom-korrespondentom Akademii V.I. Mamsakhlisovym.
(Bremsstrahlung)

24.6714

3724
S/057/62/032/005/011/022
B163/B102

AUTHOR: Pataraya, A. D.

TITLE: Propagation of non-linear plasma oscillations along a magnetic field. II

PERIODICAL: Zhurnal tekhnicheskoy fiziki, v. 32, no. 5, 1962, 584-588

TEXT: An earlier theoretical study (ZhTF, 32, 139, 1962) of the non-linear oscillations of a quasi-neutral two-component plasma in an external magnetic field is continued. The thermal motion of the electrons and ions, which was ignored in the earlier study, is now taken into account. Expressions for the wave propagation rate, the wave length of plasma density oscillations, and the magnetic field components are derived. [Abstracter's note: These expressions are not given in the abstract because they contain many abbreviations and functions which can hardly be explained in an abstract shorter than a complete translation of both the abstracted and the preceding paper.]

Card 1/2

Propagation of non-linear plasma ... S/057/62/032/005/011/022
B163/B102

ASSOCIATION: Institut fiziki AN Gruzinskoy SSR, Tbilisi
(Institute of Physics of the AS of the Georgian SSR, Tbilisi)

SUBMITTED: June 9, 1961

Card 2/2

PATARAYA, A.D.

Structure of an isolated wave propagating along a magnetic field.
Zhur. tekh. fiz. 33 no.11:1315-1317 N '63. (MIRA 16:12)

1. Institut fiziki AN Gruzinskoy SSR, Tbilisi.

PATARAYA, A.D.

Spreading of nonlinear plasma oscillations along a magnetid field. Part 2. Zhur.tekh.fiz. 32 no.5:584-588 My '62. (MIRA 15:7)

1. Institut fiziki AN Gruzinskoy SSR, Tbilisi.
(Plasma (Ionized gases)) (Magnetic fields)

S/057/62/032/001/006/018
B104/B138

24 2120

AUTHORS: Pataraya, A. D., and Lominadze, D. G.

TITLE: Excitation of magnetohydrodynamic waves in an anisotropic plasma

PERIODICAL: Zhurnal tekhnicheskoy fiziki, v. 32, no. 1, 1962, 44-47

TEXT: The study was carried out by applying external alternating currents. The anisotropic plasma was assumed to be in a constant external magnetic field $\vec{H}_0$ along the z-axis in the presence of external currents $\vec{j}_0$. Provided $\vec{j}_0$ is sufficiently small, the plasma equations of G. Chew et al. (Proc. Roy. Soc., 236, 112, 1956) can be linearized, and a Fourier transformation applied. The dispersion equation thus obtained from the determinant of the resulting system enables one to study the various types of waves which might be propagated in anisotropic plasmas. The following relation is derived for the emission intensity of magnetohydrodynamic and magnetoacoustic waves:

Card 1/3

Excitation of magnetohydrodynamic ...

$$P=8\pi^5\frac{u_0^2\omega_0^2}{c^2}\int\left\{\left|j_\perp\left(\frac{\omega_0}{u_1},\ \vartheta,\ \varphi\right)\right|^2\frac{\cos^2\varphi}{u_1^3}+\frac{u_2^2-3s_1^2\cos^2\vartheta}{u_2^2-u_3^2}\times\right.$$

$$\left.\times\left|j_\perp\left(\frac{\omega_0}{u_2},\ \vartheta,\ \varphi\right)\right|^2\frac{\sin^2\varphi}{u_2^3}+\frac{3s_1^2\cos^2\vartheta-u_3^2}{u_2^2-u_3^2}\left|j_\perp\left(\frac{\omega_0}{u_3},\ \vartheta,\ \varphi\right)\right|^2\frac{\sin^2\varphi}{u_3^3}\right\}d\Omega, \qquad (8).$$

The first term denotes the intensity of Alfvén waves, while the second and third terms denote the emission intensity of fast and slow magneto-acoustic waves. $j_\perp(k,\vartheta,\varphi)$ is the Fourier component of the external field density in a plane perpendicular, to the magnetic field direction, φ is the angle between the plane in which $\vec{j}_0$ and $\vec{H}_0$, and $\vec{k}$ and $\vec{H}_0$ lie, ω_0 is the frequency of the external alternating current, u_i are the phase velocities of the three wave types. Some special cases are finally examined. N. L. Tsintsadze is thanked for discussions. A. Akhiyezer and A. Sitenko (ZhETF, 35, 116, 1958) are mentioned. There are 3 references: 2 Soviet and 1 non-Soviet. The reference to the English-language publication reads as follows: G. Chew, M. Goldberger, F. Low, Proc. Roy. Soc. 236, 112, 1956.

Card 2/3

31946
S/057/62/032/001/006/018
B104/B138

Excitation of magnetohydrodynamic ...

ASSOCIATION: Institut fiziki AN Gruzinskoy SSR (Institute of Physics of the AS Gruzinskaya SSR)

SUBMITTED: March 18, 1961

4

Card 3/3

S/057/60/030/010/005/019
B013/B063

24.2120

AUTHORS: Tsintsadze, N. L. and Pataraya, A. D.

TITLE: Production of Hydromagnetic and Magnetic Cherenkov Waves in a Dilute Anisotropic Plasma

PERIODICAL: Zhurnal tekhnicheskoy fiziki, 1960, Vol. 30, No 10, pp. 1178-1185

TEXT: The authors determined formulas for the power of Cherenkov radiation from mobile sources. A charged filament and several circuits moving with a high velocity served for the production of waves. Equations by Chew, Goldberger, and Low (Ref. 1) were used to derive the above-mentioned formulas. These equations, which are similar to the set of equations of magnetohydrodynamics, are, however, only valid for a plasma moving across the magnetic field. In the present work, they were used to study the production of waves in an anisotropic plasma by means of circuits and a charged filament moving both across and along the magnetic field. It is noted that the results obtained possibly do not hold for the case in which the circuits in the plasma move in the direction of the

Card 1/2

Production of Hydromagnetic and Magnetic Cherenkov Waves in a Dilute Anisotropic Plasma

S/057/60/030/010/005/019
B013/B063

magnetic field. The greatest difference between an isotropic and an anisotropic plasma is that hydromagnetic waves are strongly excited in the latter plasma. This phenomenon is caused by the appearance of anisotropic Alfvèn waves in the medium under consideration. A similar problem was studied by A. I. Morozov (Ref. 4) for an isotropic plasma the circuit of which moves along the external magnetic field. The data obtained by the authors are in qualitative agreement with Morozov's results. The authors thank N. M. Poliyevktov-Nikoladze, Ya. B. Feynberg, A. G. Sitenko, and D. G. Lominadze for discussions. There are 1 figure and 4 Soviet references.

ASSOCIATION: Institut fiziki AN Gruz SSR, Tbilisi (Institute of Physics AS Gruzinskaya SSR, Tbilisi)

Card 2/2

L 33168-65 EWP(m)/EPR/EWG(v)/EPA(w)-2/EEC(t)/EWT(l)/EWA(m)-2/T/EWA(d)/EPA(sp)-2
Pd-1/Pe-5/Pi-4/Po-4/Ps-4/Pz-6/Pab-10 IJP(c) AT

ACCESSION NR: AP5005218 S/0057/65/035/002/0200/0204

AUTHOR: Pataraya, A.D.

TITLE: Structure of weak shock waves with the ion Larmor radius taken into account

SOURCE: Zhurnal tekhnicheskoy fiziki, v.35, no.2, 1965, 200-204

TOPIC TAGS: plasma, magnetohydrodynamics, shock wave structure, magnetic field, ion temperature

ABSTRACT: The propagation of an adiabatic shock front moving transversely to a magnetic field in a two-component plasma is treated in the magnetohydrodynamic approximation. The stress in the electron gas is represented by a hydrostatic pressure, but that in the ion gas includes nondiagonal elements due to the anisotropy of the ion velocity distribution. It is found that when the ion Larmor radius is sufficiently small the properties of the plasma in front of the shock vary monotonically with distance from the shock, while those behind the shock front vary in an oscillatory manner with distance. This is in agreement with findings of W.Geiger, H.J. Kaeppeler and B.Mayser (Nuclear fusion,Suppl.2,1962) and others. When the ion Larmor radius is sufficiently large, however, the situation is reversed: the variation

Card 1/2

L 33168-65

ACCESSION NR: AP5005218

of the plasma properties is oscillatory in front of the shock and monotonic behind it. This change in behavior is due to a change in the dispersion equation; when the ion Larmor radius is large, the velocity of the waves increases with increasing wave number. "In conclusion, I thank V.P.Silin and A.A.Rukhadze for valuable discussions." Orig.art.has: 31 formulas.

ASSOCIATION: none

SUBMITTED: 30Apr64 ENCL: 00 SUB CODE: ME

NR REF SOV: 003 OTHER: 003

Card 2/2

TSINTSADZE, N.L.; PATARAYA, A.D.

Cherenkov production of hydromagnetic and magnetoacoustic waves in a rarefied anisotropic plasma. Zhur. tekhn. fiz. 30 no.10:1178-1185 O '60. (MIRA 13:10)

1. Institut fiziki AN Gruzinskoy SSR, Tbilisi.
(Plasma (Ionized gases))
(Magnetohydrodynamics)

L 02393-67 EWP(m)/EWT(1) IJP(c) AT/WW

ACC NR: AP6025267 SOURCE CODE: UR/0057/66/036/007/1320/1322

AUTHOR: Pataraya,A.D.

ORG: Institute of Physics, AN Gruz. SSR, Tbilisi (Institut fiziki AN Gruz. SSR)

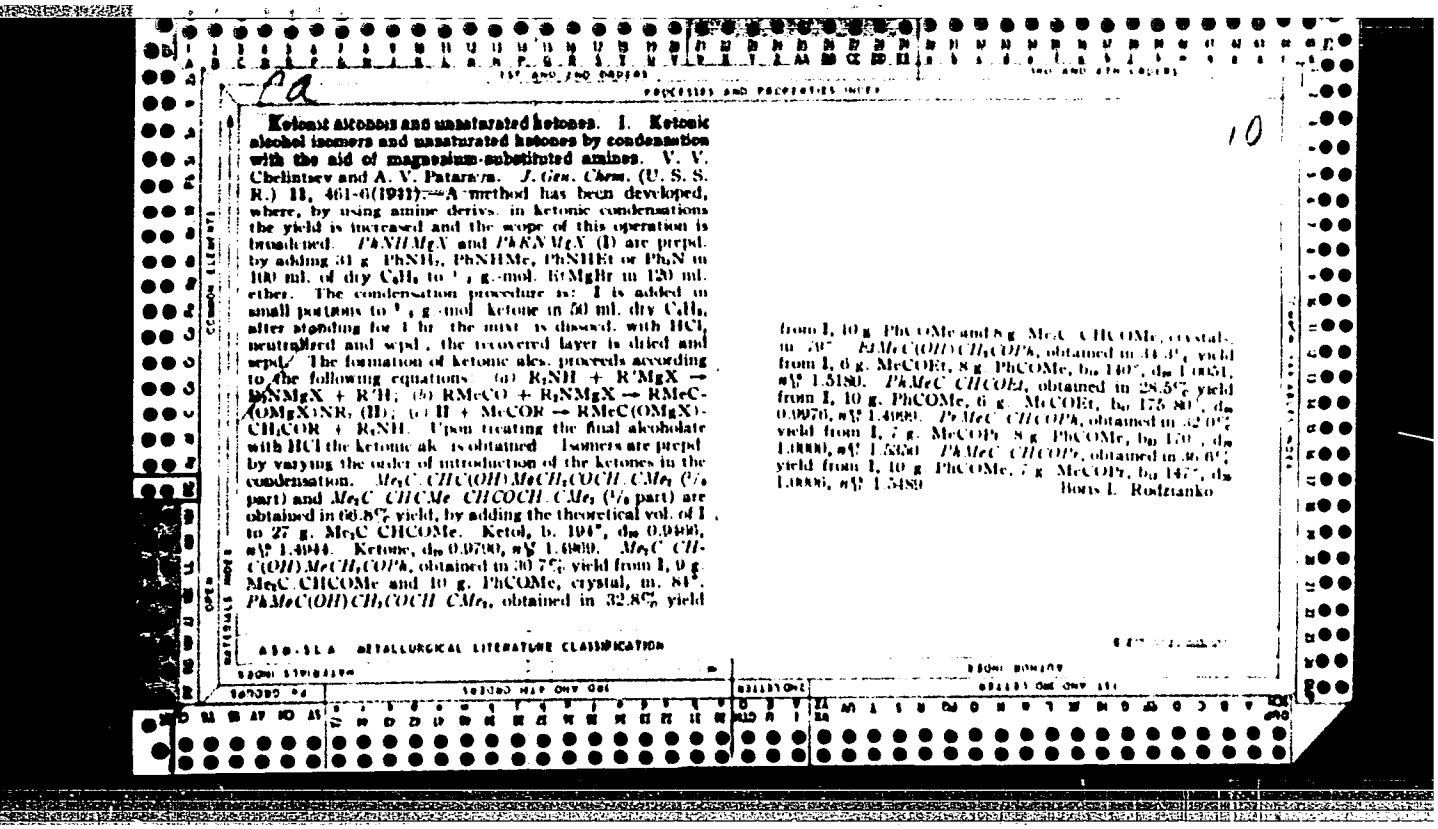
TITLE: Structure of a shock wave propagating transversely to a magnetic field in a plasma

SOURCE: Zhurnal tekhnicheskoy fiziki, v. 36, no. 7, 1966, 1320-1322

TOPIC TAGS: plasma shock wave, shock wave structure, strong shock wave, transverse magnetic field

ABSTRACT: The author (ZhTF, 35, 200, 1965) has previously discussed the laminar structure of a weak shock wave propagating transversely to an external magnetic field in a collision-free plasma, treating the problem in the two fluid hydrodynamic approximation with magnetic viscosity of the ions taken into account. In the present paper she treats the same problem for a strong shock wave, using equations given by K.V. Roberts and J.B.Taylor (Phys. Rev. Letters, 8, 197, 1962) and L.I.Rudakov (Yadernyy sintez, 2, 1, 1962) and assuming that the pressure of the electron gas and the scalar pressure of the ion gas change according to the adiabatic law with the same index. Dispersion equations for the regions before and behind the shock front were derived from the equations of motion, Maxwell's equations, and the equation of continuity.

Card 1/2 UDC: 533.9



Ketonic alcohols and unsaturated ketones. I. Ketonic alcohol isomers and unsaturated ketones by condensation with the aid of magnesium-substituted amines. V. V. Chelintsev and A. V. Patarava. *J. Gen. Chem.* (U. S. S. R.) **11**, 461-6(1941).—A method has been developed, where, by using amine derivs. in ketonic condensations the yield is increased and the scope of this operation is broadened. *PhNHMgX* and *PhRNMgX* (I) are prepd. by adding 31 g. $PhNH_2$, PhNHMe, PhNHEt or $PhNMe_2$ in 100 ml. of dry C_6H_6 to $\frac{1}{2}$ g.-mol. RMgBr in 120 ml. ether. The condensation procedure is: I is added in small portions to $\frac{1}{2}$ g.-mol ketone in 50 ml. dry C_6H_6, after standing for 1 hr. the mixt. is diassd. with HCl, neutralized and wshd., the recovered layer is dried and wshd. The formation of ketonic alcs. proceeds according to the following equations: (a) $R_1NH + R'MgX \rightarrow R_1NMgX + R'H$; (b) $RMeCO + R_1NMgX \rightarrow RMeC(OMgX)NR_1$ (II); (c) II + MeCOR → $RMeC(OMgX)CH_2COR + R_1NH$. Upon treating the final alcoholate with HCl the ketonic alc. is obtained. Isomers are prepd. by varying the order of introduction of the ketones in the condensation. *$Me_3C.CHC(OH)MeCH_2COCH.CMe_3$* (⅔ part) and *$Me_3C.CHCMe.CHCOCH.CMe_3$* (⅓ part) are obtained in 68.8% yield, by adding the theoretical vol. of I to 27 g. $Me_3C.CHCOMe$. Ketol, b. 194°, d_0 0.9400, n_D^{20} 1.4044. Ketone, d_0 0.9700, n_D^{20} 1.4689. *$Me_3C.CH(OH)MeCH_2COPh$*, obtained in 30.7% yield from I, 9 g. $Me_3C.CHCOMe$ and 10 g. PhCOMe, crystal, m. 81°. *$PhMeC(OH)CH_2COCH.CMe_3$*, obtained in 32.8% yield from I, 10 g. PhCOMe and 8 g. $Me_3C.CHCOMe$, crystals, m. 70°. *$EtMeC(OH)CH_2COPh$*, obtained in 44.3% yield from I, 6 g. MeCOEt, 8 g. PhCOMe, b_{10} 140°, d_0 1.0451, n_D^{20} 1.5180. *$PhMeC.CHCOEt$*, obtained in 28.5% yield from I, 10 g. PhCOMe, 6 g. MeCOEt, b_{10} 175-80°, d_0 0.9970, n_D^{20} 1.4980. *$PrMeC.CHCOPh$*, obtained in 52.0% yield from I, 7 g. MeCOPr, 8 g. PhCOMe, b_{10} 150°, d_0 1.0880, n_D^{20} 1.5551. *$PhMeC.CHCOPr$*, obtained in 30.6% yield from I, 10 g. PhCOMe, 7 g. MeCOPr, b_{10} 147°, d_0 1.0806, n_D^{20} 1.5489.

Boris I. Rodzianko

A50-51A METALLURGICAL LITERATURE CLASSIFICATION

PATARAYA, L.M.

Varieties and forms of the several types of Moscow Province fern. Uch. zap. MOPI 124:327-333 '63. (MIRA 18:6)

PATARAYA, L.M.

Evaluation of the intraorganic blood circulation of the liver following ligation of the hepatic artery. Sbor. nauch. trud. GIDUV no. 14:130-135 '58. (MIRA 13:10)

1. Iz kafedry operativnoy khirurgii Gosudarstvennogo instituta dlya usovershenstvovaniya vrachey (zav. kafedroy prof. A.P. Nadein) i khirurgicheskogo otdeleniya respublikanskoy bol'nitsy Adzharskoy SSR, Batumi.
(LIVER--BLOOD SUPPLY) (HEPATIC ARTERY--LIGATURE(SURGERY))

PATARAYA, M.K., zasluzhennyy vrach Gruzinskoy SSR

Experimental anatomical investigation of hemorrhage into the vessels and nerves of the thyroid gland following subtotal strumectomy. Sbor. nauch. trud. GIDUV no. 14:136-142 '58. (MIRA 13:10)

1. Iz kafedry operativnoy khirurgii Gosudarstvennogo instituta dlya usovershenstvovaniya vrachey (zav. kafedroy prof. A.P. Nadein) i khirurgicheskogo otdeleniya gorodskoy bol'nitsy Batumi.
(HEMORRHAGE) (THYROID GLAND--SURGERY)

PATARAYA, N. G.

USSR/Chemistry - Hydration, Catalytic Hydrogenation Aug 49

"Addition of Hydrogen to Acetylene Derivatives: Catalytic Hydrogenation of Methyl-Ethyl-(1*Hydroxycyclopentyl-Acetylenyl)-Carbinol (I)," I. M. Gverdtsiteli, N. G. Pataraya, Lab of Org Chem, Tbilisi State U imeni I. V. Stalin, 3½ pp

"Zhur Obshch Khim" Vol XIX, No 8 - p. 1479

Synthesized I and studied product of its hydrogenation in presence of colloidal palladium. This glycol is hydrogenated more slowly than tetramethyl-butindiol indicating effect of structure of glycol on speed of hydrogenation. Prepared new ehtylene glycol, methyl-ethyl-(1-oxycyclopentyl-ehtylenyl)-carbinol, and a saturated glycol, methyl-ethyl-(1-oxycyclopentylethyl)-carbinol. Submitted 26 Apr 48.

PA149T17

USSR/Physics - Hydrodynamics 1950

"Hydrodynamic Interaction of Spheres Moving Together in a Fluid," N. N. Pataraya, Maritime Inst, Moscow, Acad Sci USSR; Tbilisi State U imeni Stalin

"Soob Ak Nauk Gruz SSR" Vol XI, No 1, pp 4-9

PA 192T57

Expounds briefly the main results in his dissertation (1948) "Certain Problems on the Hydrodynamic Interaction of Bodies Moving Together in a Fluid" (manuscript at Tbilisi State U imeni Stalin), which is a theoretical-exptl clarification of the phenomenon of subject interaction 1st experimentally studied by V. V. Shuleykin ("Fizika Morya" (Physics of the Sea), Moscow/Leningrad, 1941) and T. I. Stas' ("Dynamics of Shoals," "Iz Ak Nauk SSSR" No 5/6, 1938). Submitted by Acad N. I. Muskhelishvili 11 Jul 49.

LC 192T57

USSR/Physics - Hydrodynamics (Contd) 1950

LC 192T57

PATARAYA, N. N.

715. Бурчуладзе Тенгиз Владимирович. Асимптотическое поведение фундаментальных функций колебания упругого тела. 1955. 114 с.
Защ. 1956, 18.2.

716. Векуа Илья Несторович. Распространение упругих колебаний в бесконечном слое. 1937.
Защ. 1937, 5.6.

717. Габададзе Николай Алексеевич. Применение комплексных и гиперкомплексных чисел в теории прямолинейных конгруэнций. Кутаиси 1953. 66 с. (Кутаисский пед. инст.) Тр. Кут. пединст., т. 14, Сообщ. АН ГССР, т. 15, № 10.
Защ. 1953, 26.12.

718. Гвазава Константин Ауич. О некоторых предельных теоремах для двойных рядов. 1957. 60(3) с.
Защ. 1957, 14.5.

719. Гегелия Тенгиз Георгиевич. О граничных задачах линейного сопряжения и о сингулярных интегральных уравнениях. 1954. 111 с.
Защ. 1954, 27.11.

720. Горгидзе Алексей Ясонович. Об одном применении метода последовательных приближений в теории упругости. 1937.
Защ. 1937, 9.10.

721. Гугуя Шота Несторович. О теоремах типа Абеля. Сухуми. 1955. 56 с. (Сухумский пед. инст.)
Защ. 1956, 7.4.

722. Магнарадзе Леван Георгиевич. Некоторые основные граничные задачи математической физики для контуров с угловыми точками. 1939. 68 с.
Защ. 1939, 23.6.

723. Мецхваришвили Ясон Георгиевич. О предельных решениях дифференциального уравнения гиперболического типа с переменными коэффициентами в случае двух независимых переменных. (Тр. Тбил. матем. инст., т. 4, 1938).
Защ. 1938, 17.5.

724. Патарая Никанор Никоаевич. Некоторые вопросы гидродинамического взаимодействия сообществодвижущихся в жидкости тел. 1947. 107 с. (Тр. ТГУ, т. 48, 1953; т. 54, 1954.
Защ. 1948, 26.4.

725. Схоеиви Вахтанг Тарасович. Представления полупростых алгебр Ли с двумерными максимальными разрешимыми подалгебрами. 1955. 157 с.
Защ. 1956, 10.3.

726. Тевзадзе Гиви Николаевич. О внутренних римановых геометриях на поверхностях проективного пространства. 1954. 105 с. (Тбилисский пединст.).
Защ. 1954, 27.5.

727. Хажалия Григорий Яковлевич. К теории конформных отображений двусвязных областей на кольцо. 1937. 107 с. (Тр. Тбил. матем. инст., т. 1).
Защ. 1938, 17.5.

728. Халилов Заид Исмаил Оглы. Решение задачи Клебша Clebsch'a методом теории функций комплексного переменного. Баку. 1939 (Азерб. гос. университет). (Изв. АН Азерб. ССР, 1949, № 4).
Защ. 1940, 22.4.

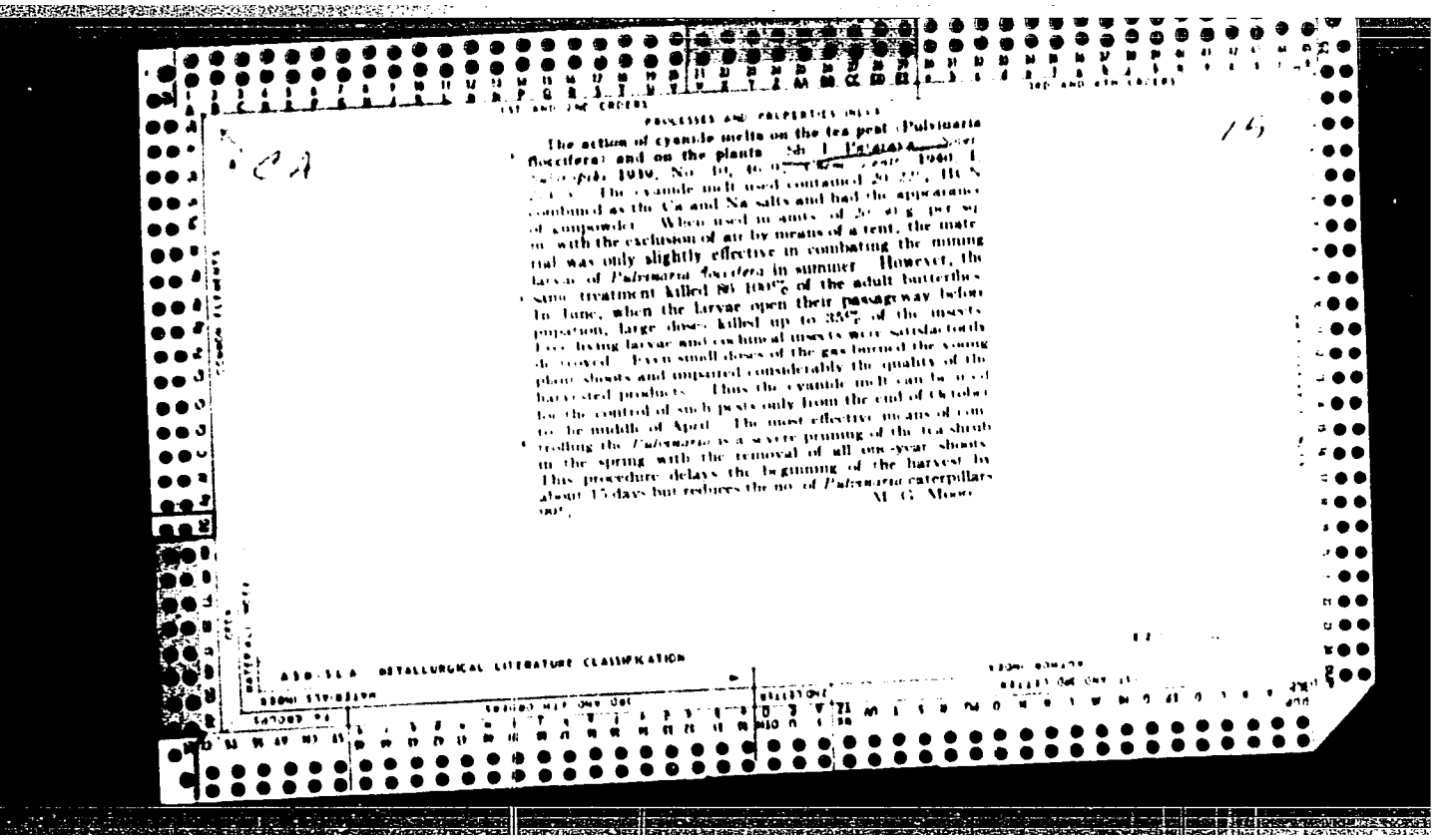
729. Харазов Давид Фе...
Некоторые вопросы теории аналитических дифференциальных уравнений. 1942. 59 с.
Защ. 1942, 26.2.

730. Хволес Александр Рубенович. Об одном классе интегральных уравнений Фредгольма III-го рода. Б. м., 6 г. 52 с.
Защ. 1949, 25.6.

731. Цицкишвили Мильтиад Исаакович. Основные граничные задачи теории установившихся упругих колебаний для областей с угловыми точками и для поверхностей с угловыми линиями. 1954. 75 с.
Защ. 1954, 29.6.

Dissertation for degree of

Candidate Mathematical Sciences



The action of cyanide melts on the tea pest *Pulvinaria floccifera* and on the plants

The cyanide melt used contained

combined as the Ca and Na salts and had the appearance of gunpowder. When used in units of

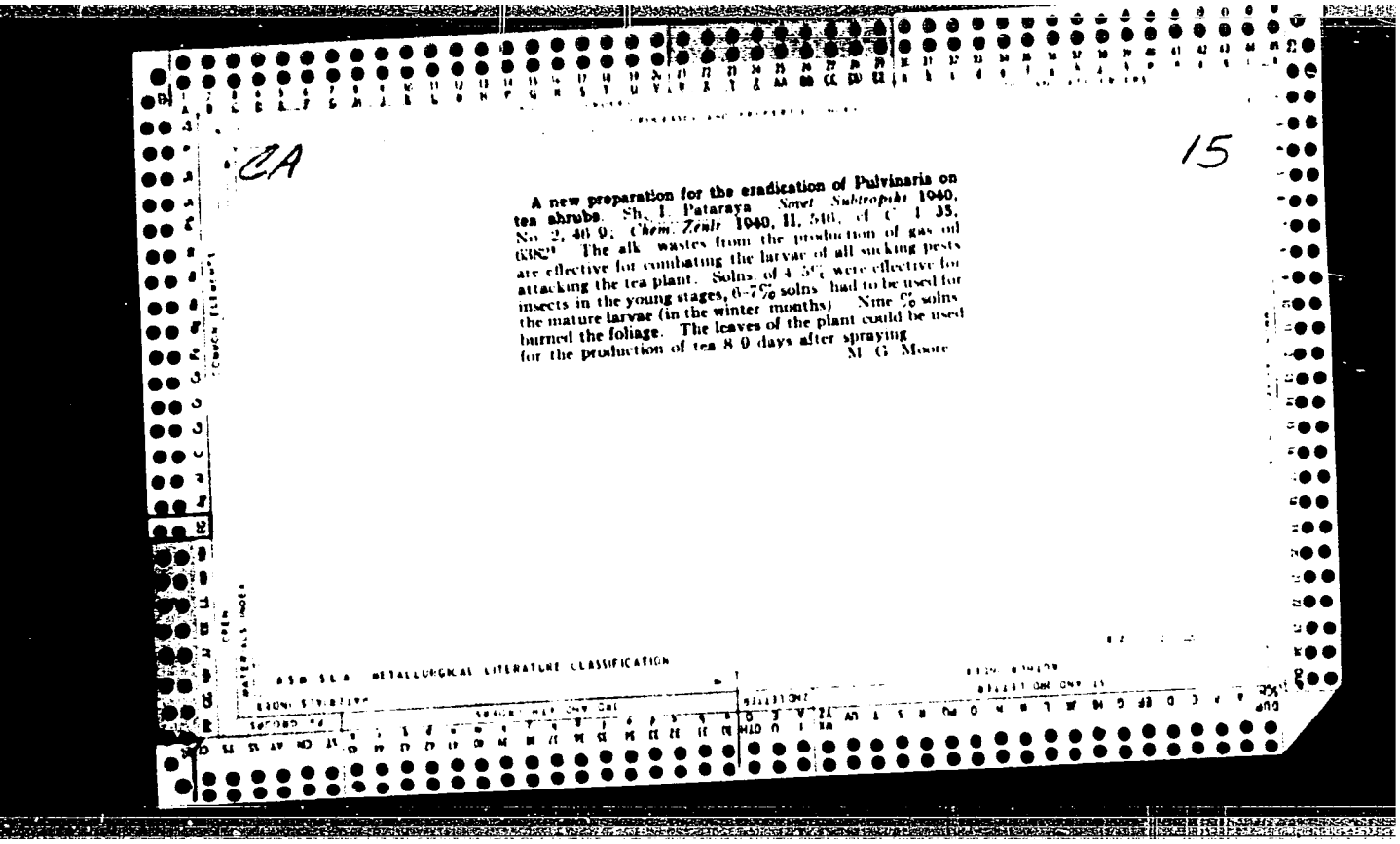
in with the exclusion of air by means of a tent, the material was only slightly effective in combating the mining larvae of *Pulvinaria floccifera* in summer. However, the same treatment killed

In June, when the larvae open their passageway before pupation, large doses killed up to

Dead living larvae and carnivorous insects were satisfactorily removed. Even small doses of the gas burned the young plant shoots and impaired considerably the quality of the harvested products. Thus the cyanide melt can be used for the control of such pests only from the end of October to the middle of April. The most effective means of combating the *Pulvinaria* is a severe pruning of the tea shrub in the spring with the removal of all one-year shoots. This procedure delays the beginning of the harvest by about 15 days but reduces the no. of *Pulvinaria* caterpillars

M. G. Moore

ASD-SLA METALLURGICAL LITERATURE CLASSIFICATION



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15

A new preparation for the eradication of Pulvinaria on tea shrubs. Sh. I. Pataraya. *Soviet Subtropiki* 1940, No. 2, 40-9; *Chem. Zentr.* 1940, II, 540. cf. C. 1 35, 6082. The alk. wastes from the production of gas oil are effective for combating the larvae of all sucking pests attacking the tea plant. Solns. of 4-5% were effective for insects in the young stages, 6-7% solns. had to be used for the mature larvae (in the winter months). Nine % solns. burned the foliage. The leaves of the plant could be used for the production of tea 8-9 days after spraying.

M. G. Moore

ASB SLA METALLURGICAL LITERATURE CLASSIFICATION

SOV/169-59-2-1131

Translation from: Referativnyy zhurnal, Geofizika, 1959, Nr 2, p 15 (USSR)

AUTHOR: Pataraya, Ye.I.

TITLE: The Gomaret Earthquake on June 11, 1954

PERIODICAL: Tr. In-ta geofiz. AS GruzSSR, 1957, Vol 16, pp 129 - 133

ABSTRACT: Several earthquakes took place on June 11, 1954, within the bounds of the Gomaret plateau in the Dzhanis region; the most intense earthquake - at 11^h25^m with 7 balls was more intense than all the foregoing earthquakes in this region. The epicenter was located at 41°4' n.lat. and 44°1' e.long. according to the instrumental data; the depth of the focus was about 10 km. The intensity was M 4.5. A chart of the isoseismal lines is given; the area affected by the quake was about 30,000 km^2.

A. Levitskaya

Card 1/1

PATARAYA, Ye.I.

Gomareti earthquake of June 11, 1954. Trudy Inst. geofiz. AN Gruz. SSR 16:129-133 '57. (MIRA 11:6)
(Didi-Gomareti--Earthquake, 1954)

SIKHARULIDZE, D.I.; PATARAYA, Ye.I.; PAPALASHVILI, V.G.

Study of the earth's crust from observations of the propagation of short-period surface waves. Trudy Inst. geofiz.AN Gruz.SSR 22:71-84 '64. (MIRA 18:12)

MINDELI, P.Sh.; NEPROCHNOV, Yu.P.; PATARAYA, Ye.I.

Determining an area void of granite layers in the Black Sea trough on the basis of the data of deep seismic sounding and seismological data. Izv. AN SSSR. Ser. geol. 30 no.2:7-15 F '65. (MIRA 18:4)

1. Institut okeanologii AN SSSR, Moskva, i Institut geofiziki AN GruzSSR, Tbilisi.

PATARCIC, A.

Common (plowshare) or disk plows. p. 1.
POLJOPRIVREDA, Beograd, Vol. , No. , Feb. 1955.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. , No. , Oct. , Uncl.

PATARIC, Momcilo, inz., asistent (Beograd, Safarikova br. 4)

Gyrocompass and its application in mining. Tehnika Jug 19 no.5:Suppl:Rudarstvo geol metalurg 15 no.5:866-875 My '64.

1. Faculty of Mining and Geology, University of Belgrade, Belgrade.

PATARICZA, I.

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