

S/803/62/000/003/012/012
D201/D308

AUTHORS: Arkhipov, V.K. and Stepanov, B.N.

TITLE: Operating conditions of a charge storing cathode ray tube securing maximum writing speed in registering single fast transient processes

SOURCE: Moscow. Inzhenerno-fizicheskiy institut. Avtomatika i telemekhanika, no. 3, 1962. Sistemy upravleniya yadevnymi energeticheskimi ustanovkami, 103-106

TEXT: From the most general concepts of potential relief recording and reading processes, the authors determine the conditions for maximum recording speed for a given S/N ratio during the read-out process. Since the recording speed is assumed to be high the secondary emission coefficient is taken as constant and the charge as proportional to the time during which the beam is directed at the screen surface element. The expressions derived for the signal and noise voltage amplitudes show that for a given set of conditions the signal voltage amplitude depends on the mode of recording and on

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stray capacitances only. For increasing the signal amplitude - the recording beam current has to be increased and strays decreased; the operating conditions should be such as to result in a maximum effective suppression of secondary emission electrons during recording in order to obtain the maximum possible charge of the spot.

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ARKHIPOV, V.K.; STEPANOV, B.M.; TURKIN, V.M.

Performance of an electron-beam oscilloscope tube in charge
storage operation with prerecording preparation of the screen.
Avtom.1 telem.; sbor.st. no.3:70-85 '62. (MIRA 16:2)
(Cathode ray tubes)

ARKHIPOV, V.K.; STEPANOV, B.M.

Performance of an electron-beam oscilloscope tube in charge storage operation with forced takeoff of the secondary electrons during recording. Avtom.1 telem.; sbor.st. no.3:86-102 '62.

(MIRA 16:2)

(Cathode ray tubes)

ARKHIPOV, V.K.; STEPANOV, B.M.

Telemetry of high-speed processes. Izv. vys. ucheb. zav.;
radiotekh. 6 no.5:554-561 S-O '63. (MIRA 17:1)

1. Rekomendovana kafedroy avtomatiki i telemekhaniki Moskovskogo
inzhenerno-fizicheskogo instituta.

ARKHIPOV, V.M.

Adjustment in rolling mills producing sectional iron. Metallurg
no.5:34-35 My '56. (MIRA 9:9)

1. Zamestitel' nachal'nika sorteprokatnogo tsekha Magnitogorskogo
metallurgicheskogo kombinata.
(Magnitogorsk--Rolling (Metalwork))

L 44005-66

EWI(m)/EWP(t)/T/ETI/EWP(k) IJP(c) JD/HW

ACC NR: AP6029871

SOURCE CODE: UR/0413/66/000/015/0022/0022

INVENTOR: Voronov, F. D.; Filatov, A. D.; Gun, S. B.; Selivanov, N. M.; Nosov, V. D.; Savel'yev, G. V.; Goncharov, F. I.; Plotnikov, P. I.; Roashkov, S. A.; Kustobayev, G. G.; Polushkin, V. P.; Arkhipov, V. M.; Uziyenko, A. M.; Kolov, M. I.; Kozhevnikov, V. P.; Shapiro, B. S.; Kalugin, V. F.; Grudev, P. I.; Aksenov, B. N.; Khomyachkov, A. P.; Rudakov, Ye. A.; Kuzema, I. D.; Gomzhin, V. V.; Poydyshev, B. N.; Shternov, M. M.

ORG: none

TITLE: Method of making high-strength steel plates by pack rolling. Class 7, No. 184232

SOURCE: Izobret prom obraz tov zn, no. 15, 1966, 22

TOPIC TAGS: high strength steel, high strength steel plate, high strength steel sheet, steel plate rolling, steel sheet rolling

ABSTRACT: This Author Certificate introduces a method of pack rolling high-strength steel plates and sheets up to 10 mm thick and up to 3500 mm wide in a carbon steel envelope. The method includes cleaning, coating, making of the pack, heating, rolling, and subsequent heat treatment. To ensure an accurate thickness of the plates

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UDC: 621.771.23

L-44005-66

ACC NR: AP6029871

or sheets regardless of their location in the pack, the thickness of the envelope must be at least 0.6 of the total initial thickness of the high-strength plates of the pack.

[ND]

SUB CODE: 13/ SUBM DATE: 18Jun64/ ATD PRESS: 5070

Card 2/2 blg

ARKHIPOV, Vadim Matveyevich; BUSYGIN, Yevgeniy Prokof'yevich;
VOROB'YEV, N.I., prof., red.; KUSURGASHEV, I.M., red.

[Antarctica and its exploration by Soviet scientists] Antark-
tida i ee issledovanie sovetskimi ucherymi. Kazan' Izd-vo Ka-
zanskogo univ., 1959. 49 p. (MIRA 15:3)
(Antarctic regions--Soviet exploration)

24,3300

68324

AUTHOR: Arkhipov, V.M.

567/51-0-1-25/40

TITLE: On the Interference-Modulation Method

ABSTRACT: Optika i spektroskopiya, 1960, Vol. 8, No. 1, p. 124-125 (1960);

ANAL. ST: This is a summary of a report presented at the conference on the Theory of Spectroscopic Instruments (Leningrad, Nov. 5-7, 1958). The paper discusses the relationship between the theoretical resolution due to a dispersing element (a diffraction grating) and the theoretical resolution of an instrument in which interference modulation is used (Refs 1-15). It is assumed that when the entry aperture is sufficiently small (interference is neglected), the resolution of an instrument for the very narrow lines of wavelengths of λ and $\lambda + \delta\lambda$ is governed only by the theoretical resolving power of the diffraction grating (Ref. 1). The value of $\delta\lambda$ is chosen in agreement with Rayleigh's criterion. Such a distribution of intensity would occur in the focal plane of the usual autocollimating spectrometer with a grating for which:

$$Rd_0 = \tan i$$

(1a)

where R is the theoretical resolving power of the grating, d_0 is the angular separation of the centre of the diffraction spot and point of intersection of the contours to be resolved (Fig 1), i is the diffraction

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On the Interference-Modulation Method

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angle. Usually $\tan i = 0.5-1$ and consequently it is assumed:

$$R\alpha_0 = 1.$$

(1b)

The paper discusses also interference modulation of beams diffracted by two gratings; for this purpose it is necessary to vary at a constant rate the path difference between the interfering beams. It is shown that using interference modulation and a receiver-amplifier system with sufficiently narrow transmission bands one can obtain (1) higher speed by increasing the entry aperture of the interferometer with the resolution determined by a diffraction grating, and (2) up to R times greater resolution than that obtainable with a grating. There are 3 figures and 15 references, 2 of which are Soviet, 3 English, 2 German, 7 French and 1 international.

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ARKHIPOV, V.M. (G. Moskva)

Atheistic significance of the teachings of I.P. Pavlov. Biol.
v shkole no.2:85-90 Mr-Apr '61. (MIRA 14:3)
(Pavlov, Ivan Petrovich, 1849-1936)
(Reflexes) (Soul)

24.3300

S/051/62/012/003/016/016
EO32/E314

AUTHOR: Arkhipov, V.M.

TITLE: Development of a spectrometer with selective interference amplitude-modulation

PERIODICAL: Optika i spektroskopiya, v. 12, no. 3, 1962, 446 - 448

TEXT: In 1957 R. Connes (Ref. 1 - Opt. Acta. 4, 136, 1957; Rev. Opt., 38, 157, 1959; 38, 416, 1959; 39, 402, 1960) suggested a new type of spectrometer and in an earlier paper the present author et al (Ref. 2 - Tr. 13, Vses. soveshch. po spektrosk., Leningrad, 1960) discussed the requirements which must be satisfied by any practical design. A description of a spectrometer built in accordance with Connes' principle (Ref. 1) is given in the present note. A schematic drawing is shown in Fig. 1. The source of radiation S is imaged on the circular entrance aperture O_1 . The radiation is then received by a semitransparent plate Γ_1 and is thrown by the mirror 3_2 onto the objective 3_3 . The resulting parallel beam is incident

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Development of a spectrometer

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normally onto the grating P which is blazed at ± 12 deg. After diffraction, the left and right beams pass through the plates Π_2 and Π_3 , are reflected from the mirrors Σ_4 and Σ_5 and again reach the grating P. They are then returned through Σ_3 and Σ_2 to Π_1 and finally reach the exit aperture O_2 . They are detected by the photomultiplier $\Phi\gamma-2$ (FEU-2), whose output is amplified, detected and finally exhibited on the chart of a pen-recorder. The plate Π_3 is used as the modulator. +

It is rocked with an adjustable period and amplitude by the mechanical system shown on the righthand side of Fig. 1. The experimental results indicate that the resolution of the device is approximately equal to twice the theoretical resolving power of the grating. The actual figure obtained in the resolution was 2×10^5 . There are 3 figures.

SUBMITTED: October 5, 1961

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ARKHIPOV, V.M.

Interference spectrometer with selective amplitude modulation.
Opt. i spektr. 12 no.3:446-448 Mr '62. (MIRA 15:3)
(Spectrometer) (Interferometer)

ARKHIPOV, V.N.

Stability of a laminar trailing zone. Vest. Mosk.un. Ser. mat.
mekh. astron. fiz. khim. 12 no.4:41-44 '57. (MIRA 11:5)

1.Kafedra aeromekhaniki i gazovoy dinamiki Moskovskogo
gosudarstvennogo universiteta.
(Aerodynamics)

ARMIPCV, V.N., Cand Phys-Math Sci--(diss) "^{flow}~~The~~ Stability of the ^a~~current~~ of fluid and formation of vibrations in the trail ~~behind~~ a streamlined body." [Log], 1958. 7 pp, incl cover (Mos Order of Lenin and Order of Labor Red Banner State U in P.V. Lomonosov. Mech-Math Faculty), 150 copies (KL, 45-58, -141)

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10(4)

AUTHOR:

Arkhipov, V. N.

SOV/20-123-4-11/53

TITLE:

Formation of Oscillations in the Wake of a Moving Body
(Obrazovaniye kolebaniy v slede za telom)

PERIODICAL:

Doklady Akademii nauk SSSR, 1958, Vol 123, Nr 4, pp 620-622
(USSR)

ABSTRACT:

A twodimensional perturbing motion with the perturbation function $\psi(x, y, t) = \varphi(y)e^{i\alpha(x-ct)}$ is assumed to be superimposed on the plane-parallel flow of a viscous incompressible liquid with the velocity components $v \equiv 0$; $u = u(y)$. Here it holds that $c = c_r + ic_i$, $\alpha = 2\pi/a$; c_r , c_i are real numbers, a denotes the length of the disturbing wave, the amplitude $\varphi(y)$ of which is considered to be small. The problem of the stability of such a flow is reduced to the investigation of the equation

$$(u - c)(\varphi'' - \alpha^2\varphi) - u''\varphi + \frac{iv}{\alpha}(\varphi^{IV} - 2\alpha^2\varphi'' + \alpha^4\varphi) = 0, \text{ where } v \text{ de-}$$

notes viscosity. The distribution of the velocities in the wake of the body is assumed to be similar to the distribu-

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of a Moving Body

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tion calculated by Tollmien (Tol'min). The author then passes on to dimensionless quantities, in which case the breadth of the "accompanying beam" (sputnaya struya) is used as a characteristic linear measure. Next, the boundary conditions are explicitly written down. The equation for the dimensionless quantities is solved by Galerkin's method in consideration of the aforementioned boundary conditions. Calculations are carried out in second approximation. The antisymmetric perturbations begin to develop already at considerably lower values of Re_1 ($Re_{1kr} \sim 19$) than the symmetric perturbations ($Re_{1kr} \sim 55$). This result confirms those of earlier investigations carried out by G. I. Petrov and also agrees with the experiment. The results obtained here hold good for accompanying beams in the wake of bodies of any shape. The phenomena occurring in an accompanying beam behind a circular cylinder are the experimentally best investigated ones. When investigating the stability of the flow in the beam behind the cylinder, that cross section of the beam was selected in which the velocity gradient is the greatest. There it applies that $u(0) = 0$. The Strukhal number was calculated according to the formula $Sh = \alpha_2 c_{r2} / 2\pi$. A diagram shows the dependence of the

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Strukhal number Sh on Re , and, for comparison, it contains also the dependence of the quantity Nd/u_{∞} on Re . Here N denotes the frequency of the formation of vortices, and d denotes the characteristic transversal dimensions of the body. For the same Re also the values of a/d were calculated. The results obtained by means of the linear hydrodynamic theory of stability and concerning the development of perturbations in the accompanying beam agree well with the experimental data on the formation of "vortex paths". This confirms the correctness of the hypothesis formulated in the present paper. The author thanks G. I. Petrov, Academician, for his useful advice. There are 2 figures and 9 references, 3 of which are Soviet.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova
(Moscow State University imeni M. V. Lomonosov)

PRESENTED: July 1, 1958, by G. I. Petrov, Academician

SUBMITTED: June 25, 1958

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8(0)

AUTHORS: ~~Arkhipov, V. M.~~, Babikov, M. A., Morozov, D. P., Petrov, G. N.,
Chechet, Yu. S., Chilikin, M. G. SOV/105-59-7-27/30

TITLE: Corresponding Member of the AS USSR A. N. Larionov (Chlen-
korr. AN SSSR A. N. Larionov) On His 70th Birthday (K 70-letiyu
so dnya rozhdeniya)

PERIODICAL: Elektrichestvo, 1959, Nr 7, p 91 (USSR)

ABSTRACT: Corresponding Member of the AS USSR, Doctor of Technical
Sciences, Professor Andrey Nikolayevich Larionov, was born
on July 16, 1889. He began his pedagogical and scientific
activities in 1919 after leaving the MVTU as Engineer-electro-
technician. In 1930 he was appointed to the Chair for "Special
Electric Machines" at the MVTU, was confirmed as Professor
in 1933, and took the degree of Doctor of Technical Sciences in
1937. 1925 - 1932 the power engineering plants of Azneft',
Grozneft', and Donbass were investigated under his supervision,
and on the basis of the data obtained, they were reorganized.
1920 - 1936 he was occupied with solving problems connected
with the putting into operation and operating of turbo- and
hydraulic generators. In 1930 high-voltage direct current
units were produced according to his plans and under his super-

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Corresponding Member of the AS USSR A. N. Larionov.
On His 70th Birthday

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vision for the transmitting plants of sea vessels. He is one of the creators of the electrical equipment of the aircraft "Maksim Gor'kiy". 1933 - 1934 he was a Member of the Arbitration Court of Berlin. In 1935 he was appointed to the Chair for "Electrical Equipment of Industrial Plants", and since 1941 he has been in charge of the Chair for the "Electrical Equipment for Aircraft, Automobiles, and Tractors" at the Moskovskiy energeticheskiy institut (Moscow Institute of Power Engineering). He worked at this Institute already in 1921, first as scientific collaborator and later as scientific Director. In 1953 he was appointed Corresponding Member of the AS USSR. Thanks to his work, hysteresis motors were for the first time designed and produced in the USSR. He took out numerous patents and published a number of works. He is the inventor of the "Wiring Scheme for the Rectification of Alternating Current", which is known all over the world. As a side-line he supervises a group at the laboratory of the institut avtomatiki i telemekhaniki AN SSSR (Institute of Automation and Telemechanics of the Academy of Sciences of the USSR), he is

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Corresponding Member of the AS USSR A. N. Larionov.
On His 70th Birthday

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Consultant of a number of research institutes, OKB, and plants,
as well as Chairman of the Committee for Permanent Magnets
of the AS USSR. He is holder of the Order of Lenin. There is
1 figure.

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10.2000(4)

24(3)

AUTHOR:

Arkhipov, V. N.

67248

SOV/20-129-4-10/68

TITLE:

The Influence of a Magnetic Field on the Stability of a Boundary Layer

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 129, Nr 4, pp 751-753 (USSR)

ABSTRACT:

The author assumes a parallel flow of a viscous, conductive, incompressible gas with the velocity components $u = u(y)$, $v = 0$, $w = 0$. The magnetic field $H = H(y)$ is assumed to have the direction of the Oy axis, and the magnetic Reynolds numbers are assumed to be small. The problem of the stability of such a flow with respect to small perturbations of the velocity field and the magnetic field is known to be reduced to an investigation of the equation

$$L(\psi) \equiv (u-c)(\psi'' - \alpha^2 \psi) - u''\psi + \frac{i\alpha}{R} (\psi^{IV} - 2\alpha^2 \psi'' + \alpha^4 \psi) - \frac{iM^2}{\alpha R} (\psi'') = 0.$$

All quantities occurring in this equation are dimensionless, and are referred to the characteristic velocity u_0 , the characteristic length l , and to the characteristic magnetic field H_0 .

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Furthermore, $\alpha = 2\pi l/\lambda$ holds, where λ denotes the wavelength of the perturbation. $Re = u_0 l/\nu$; ν - viscosity; $M^2 = \mu H_0 l/\sqrt{\sigma q \nu}$; μ - magnetic permeability of the gas; σ - conductivity of the gas; q - gas density; the small perturbation v' of the transversal velocity is represented in the form $v' = \psi(y)e^{i\alpha(x-ct)}u_0$. Here, $c = c_r + ic_i$ holds, where c_r and c_i are real numbers. In addition, there are the boundary conditions $\psi = \psi' = 0$ with $y = 0$ and $\psi = \psi' = 0$ with $y \rightarrow \infty$. The author investigates the stability of the flow velocity profile in the conductive boundary layer of an incompressible gas along a plane plate for the case $u_0^2/2c_p = 1.85 \cdot 10^4$ K calculated by V. J. Rossow (Ref 2). This profile is here approximated by a sixth-degree polynomial with respect to y . The quantity $l = 1.73\sqrt{\nu x/u_0}$; $H = H(0)$ is here chosen as a characteristic linear dimension. Like G. I. Petrov (Ref 3) the author solves the eigenvalue problem of the aforementioned problem according

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to Galerkin's method. For this purpose the system of equations

$$\sum_{k=1}^m e_k \int_0^{\infty} L(\psi_k) \psi_1 dy = 0, \quad i, k = 1, 2, \dots, m$$

is investigated,

where e_k are arbitrary constants and $\{\psi_k(y)\}$ is a system of "approximation functions" which satisfy the above boundary conditions. The problem is reduced to investigating the equation

$|D_{ik}| = 0$, where $|D_{ik}| = \left| \int_0^{\infty} L(\psi_k) \psi_1 dy \right|$ is the determinant of

the system of equations just written down. In this case the system of approximation functions may be chosen in the form

$\psi_k = (1 - e^{-y})^2 e^{-ky}$, $k = 1, 2, \dots$. The equation $f(\alpha, Re) = 0$ in the (α, Re) -plane defines the neutral curve which separates the range of stability ($c_1 < 0$) from that of instability ($c_1 > 0$).

The "least" value $Re = Re_{kr}$ on the "neutral" curve characterizes the transition of the flow into the unstable state. A diagram shows the curve calculated in second approximation for

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$M^2 = 0$ according to Galerkin's method. For comparison, also the curves calculated by S. F. Shen' (Ref 4), G. Shlikhting (Ref 5) and J. A. Zaat (Ref 6) are given. The second diagram shows the curves calculated (in second approximation) according to Galerkin's method in the (α, Re) -plane for various values of M^2 . There are 2 figures and 6 references, 3 of which are Soviet.

PRESENTED: July 9, 1959, by G. I. Petrov, Academician

SUBMITTED: July 2, 1959

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Card 4/4

CHILIKIN, M.G.; LARIONOV, A.N.; ANDRIANOV, K.A.; MESHKOV, V.V.;
IONKIN, P.A.; ARKHIPOV, V.N.; PETROV, G.N.; BRAGIN, S.M.;
PRIVEZENTSEV, V.A.; TAREYEV, B.M.

Professor N.G. Drozdov. Elektrichestvo no.10:90.0 '60.
(Drozdov, Nikolai Gavrilovich, 1900-) (MIRA 14:9)

89396

10.2000

26.2/60

S/040/61/025/001/015/022
B125/B204

AUTHOR: Arkhipov, V. N. (Moscow)

TITLE: The plane-parallel flow of a compressible liquid in the track behind a body

PERIODICAL: Prikladnaya matematika i mekhanika, v. 25, no. 1, 1961, 138-139

TEXT: The plane-parallel flow of a viscous incompressible liquid is assumed to flow with the velocity $u_{\infty} = \text{const}$ against an immobile body which is symmetric with respect to the direction of the flow. At a large distance from the body the pressure is assumed to be approximately constantly distributed over the cross section, and the transversal velocity is assumed to be low compared to the longitudinal velocity. The rate of change of the longitudinal velocity along the axis of the track is assumed to be low compared to its rate of change in the cross section. Besides, the pressure gradient along the axis of the track in the unlimited velocity is assumed to be extremely low. The following equations then hold:

$$\rho u \frac{\partial u}{\partial x} + \rho v \frac{\partial u}{\partial y} = \frac{\partial}{\partial y} \left(\mu \frac{\partial u}{\partial y} \right) \text{ (equation of motion) (1)}$$

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The plane-parallel flow of a...

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$$\rho u \frac{\partial(C_p t)}{\partial x} + \rho v \frac{\partial(C_p t)}{\partial y} = \frac{\partial}{\partial y} \left(k \frac{\partial t}{\partial y} \right) + \frac{\mu}{J} \left(\frac{\partial u}{\partial y} \right)^2 \quad (\text{energy equation}) \quad (2)$$

$\frac{\partial(\rho u)}{\partial x} + \frac{\partial(\rho v)}{\partial y} = 0$ (continuity equation) (3) $\rho t = \rho_\infty t_\infty$ (equation of state) (4). Here the coordinate x along the symmetry axis is taken; u and v are the components of velocity along the coordinate axis, ρ - the density of the liquid, μ - its viscosity, t - temperature, C_p - the specific heat at constant pressure, k - the thermal conductivity, J - the mechanic heat equivalent. By ∞ the parameters of the undisturbed flow are denoted. Furthermore, $C_p = \text{const}$, $Pr = \frac{C_p \mu}{k} = 1$, $\frac{\mu}{\mu_\infty} = \left(\frac{t}{t_\infty} \right)^m$

($m = \text{const}$) is assumed. In this case the energy equation supplies the Crocco integral $t = A + Bu - \frac{u^2}{2C_p J}$ (6), where A , B are indefinite constants.

With $u = \frac{\rho_\infty}{\rho} \frac{\partial \psi}{\partial y}$, $v = -\frac{\rho_\infty}{\rho} \frac{\partial \psi}{\partial x}$ and $\left(\frac{\partial}{\partial y} \right)_x = \frac{\rho u}{\rho_\infty} \left(\frac{\partial}{\partial \psi} \right)_x$, $\left(\frac{\partial}{\partial x} \right)_y = -\frac{\rho v}{\rho_\infty} \left(\frac{\partial}{\partial \psi} \right)_x + \left(\frac{\partial}{\partial x} \right)_y$

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follows $\rho_{\infty} \frac{\partial u}{\partial x} = \frac{\partial}{\partial \psi} \left(\mu_{\infty} \rho_{\infty} \frac{\partial u}{\partial \psi} \right)$ (7). At great distance from the body it now holds in the track that $u \sim u_{\infty} + u_1$, $v \sim v_1$, where u_1 and v_1 are small.

When restricting oneself to the principal terms it follows from (7) that

$\rho_{\infty} \frac{\partial u_1}{\partial x} = u_{\infty} \frac{\partial}{\partial \psi} \left(\frac{\mu_1}{\rho_{\infty}} \frac{\partial u_1}{\partial \psi} \right)$ (8). By the dimensionless quantities

$U_1 = \frac{u_1}{u_{\infty}}$, $T = \frac{t}{t_{\infty}}$, $X = \frac{x}{L}$, $\Psi = \frac{\psi}{\sqrt{u_{\infty} v_{\infty} L}}$, $(v = \frac{\mu}{\rho})$ and $\frac{\mu_1}{\rho_{\infty}} = \mu_{\infty} T^{m-1}$ it

follows from (8) that $\frac{\partial U_1}{\partial X} = \frac{\partial}{\partial \Psi} \left(T^{m-1} \frac{\partial U_1}{\partial \Psi} \right)$ (9). With $m = 1$ an analytical solution is obtained. The boundary conditions to (1)-(4) read as follows:

$v = 0$, $\frac{\partial u}{\partial y} = 0$ with $y = 0$, $u \rightarrow u_{\infty}$, $v = 0$, $t = t_{\infty}$ with $y \rightarrow \pm \infty$ (11), and

herefrom follows $U_1 = 0$ with $\Psi = \infty$, $\frac{\partial U_1}{\partial \Psi} = 0$ with $\Psi = 0$, if the axis of symmetry is taken as flow line. The total flux of momentum through a

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certain control plane through the body is $\int_{-h}^h \rho u u_1 dy$. With $U_1 = Cx^{-1/2} g(\xi)$ the differential equation $g'' + \frac{1}{2}\xi g' + \frac{1}{2}g = 0$ (16) follows from (9). By double integration in consideration of the boundary conditions $g' = 0$ with $\xi = 0$, $g \rightarrow 0$ with $\xi \rightarrow \infty$ (17) follows $g = \exp(-\frac{1}{4}\xi^2)$ (18). Determination of the constants A, B, C is briefly described. The temperature t is determined from (6) and the density ρ is determined from (4). An analogous problem for an incompressible liquid was solved by W. Tolmien.

SUBMITTED: November 16, 1960

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42042

S/207/62/000/004/001/006
I028/I242

11 70 00
AUTHOR: Arkhipov, V.N. (Moscow)

TITLE: Rarefaction wave in a relaxed gaseous mixture

PERIODICAL: Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no.4, 1962, 40-46

TEXT: The propagation of a one-dimensional, centered rarefaction wave in a reactive gaseous mixture is considered. The mixture is contained in a pipe of uniform section closed at the left end by a piston. At the moment $t = 0$ the piston starts to move to the left at constant velocity $U_p < 0$. This causes the propagation of a disturbance to the right which disturbs the equilibrium and produces chemical reactions in the mixture. The thermo-

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I028/I242

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dynamic relationships, the momentum, continuity (for the separate components and for the mixture as a whole), and energy equations are written down as non-dimensional variables. A method for solving the resulting system of equations for the case $t \rightarrow 0$ is indicated. This solution represented the boundary conditions in the problem of the determination of the gas parameters in the rarefaction wave taking the relaxation into account. Numerical results are given for the case of an ideally dissociating gas; the profile of the temperature in the rarefaction wave is represented graphically for the values $t/\tau = 0, 0.5, 1.0, 1.5, 2.0$ (τ = characteristic time of the problem). For the limiting case $t \rightarrow \infty$ the general equations are reduced to a system describing a centered wave propagating in the medium without disturbing its thermodynamic and chemical equilibrium. There are 2 figures.

SUBMITTED: April 25, 1962
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ARKHIPOV, V.N., (Moskva); KHOROSHKO, K.S. (Moskva)

Problem of a flow past a cone allowing for relaxation. PMTF
no.6:121-124 N-D '62. (MIRA 16:6)
(Gas dynamics)

ACCESSION NR: AP3011918

S/0207/63/000/005/0035/0040

AUTHORS: Arkhipov, V. N. (Moscow); Severinov, L. I. (Moscow)

! TITLE: Rotational relaxation in a plane-parallel rarefaction wave

SOURCE: Zhurnal prikl. mekhaniki i tekhn. fiziki, no. 5, 1963, 35-40

TOPIC TAGS: rarefaction wave, rotational relaxation, plane parallel rarefaction wave, rarefaction wave rotational relaxation, supersonic flow, supersonic flow deflection

ABSTRACT: The effect of relaxation time in a rarefaction wave on the flow properties of an inviscid, compressible, non-heat conducting fluid has been analyzed. The relaxation equations are written in polar coordinates r, φ , and the corresponding differential equations for the two families of characteristics are derived, which, for the condition $\varphi = \varphi_0$ are written as

$$V = V_0, \quad \beta = S = 0, \quad p = p_0 = T = \theta = a_1 = 1$$

$$\beta(r, \varphi^*) = \varphi^*$$

Card 1/2

ACCESSION NR: AP3014918

where φ^* - angle of incidence less than zero. In the limit $r \rightarrow 0$ these equations are transformed to ordinary differential equations describing a supersonic Prandtl-Meyer type flow and are solved iteratively for values in the vicinity of $r = 0$. Numerical solutions are obtained for $\gamma = 5/3$, $V_0 = 2$, and $\varphi^* = -20$ and the flow field described in the domain $\varphi^* \leq \varphi \leq \varphi_0$, $r > 0$. "The author is grateful to V. A. Ipatov." Orig. art. has: 31 equations and 5 figures.

ASSOCIATION: none

SUBMITTED: 17Jan63

DATE ACQ: 27Nov63

ENCL: 00

SUB CODE: PH

NO REF SOV: 001

OTHER: 001

Card 2/2

ARKHIPOV, V.N.; BIRYUKOV, V.G.; BRONSHEYN, A.M.; DROZDOV, N.G.; KRESTOV,
N.I.; NAYASHKOV, I.S.; PETROV, G.N.; SIROTINSKIY, L.I.; CHILIKIN,
M.G.

Professor G.V. Butkevich; on his 60th birthday. Elektrichestvo
no.10:92-93 0 '63. (MIRA 16:11)

ACCESSION NR: AP4044737

S/0207/6A/000/004/0149/0154

AUTHOR: Arkhipov, V. N. (Moscow)

TITLE: The effect of relaxation on decay of arbitrary rupture

SOURCE: Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 4, 1964, 149-154

TOPIC TAGS: shock wave, vibrational relaxation, shock wave front, equilibrium flow, rarefaction wave, rotational relaxation

ABSTRACT: The effect of vibrational relaxation in a blast wave before the onset of the secondary shock front was studied analytically. At the shock front equilibrium is assumed for translational and rotational degrees of freedom and behind the shock wave, vibrational equilibrium. The expanding gas is divided into four regions: 1- region between shock wave and surface of contact, 2- region between contact surface and centered rarefaction wave, 3- rarefaction wave, 4- high-pressure unperturbed gas. The governing equations for a plane cylindrical or spherical shock front are in nondimensional form

$$\gamma_0 \frac{\partial u}{\partial t} + \gamma_0 u \frac{\partial u}{\partial r} + \frac{1}{p} \frac{\partial p}{\partial r} = 0, \quad \frac{\partial p}{\partial t} + u \frac{\partial p}{\partial r} + p \frac{\partial u}{\partial r} + \frac{np u}{r} = 0,$$

$$\frac{\partial h}{\partial t} + u \frac{\partial h}{\partial r} = \frac{1}{p} \frac{\partial p}{\partial t} + \frac{u}{p} \frac{\partial p}{\partial r}, \quad p = pT.$$

Card 1/3

ACCESSION NR: AP4044737

$$\frac{\partial E_k}{\partial t} + u \frac{\partial E_k}{\partial r} = \frac{E - E_k}{\tau}, \quad E = \frac{n_0 T_0}{\exp(\theta/T) - 1} \quad (\tau = \text{const}),$$

and the following initial conditions are obtained (subscripts refer to the various regions concerned): for region 3, $-a_4 \leq y \leq y_c$, $y = (r-1)/t$

$$v = u^* - a_f^*, \quad u^* = \frac{2(y+a_4)}{\gamma_4 + 1}, \quad \left(\frac{p^*}{p_4}\right)^* = \left(\frac{p^*}{p_4}\right)^* = 1 - \frac{y+a_4}{2\lambda a_4},$$

and for regions 2 ($y_c \leq y \leq y_2$) and 1 ($y_2 \leq y \leq y_0$)

$$u^* = u_1, \quad p^* = p_1, \quad p^* = p_1, \quad a_f^* = a_{f1}$$

$$u^* = u_1, \quad p^* = p_1, \quad p^* = p_1, \quad a_f^* = a_{f1}$$

The solution is given in a series form for small t

$$f(y, t) = f^*(y) + f^{**}(y)t + \dots \quad (f^*(y) = f_1(y; 0), \dots, f^* = u^*, p^*, p^*, E_k^*),$$

and the integration constants for the functions $f^*(y)$ are determined from three sets of boundary conditions: at the shock wave, at the contact surface (surface dividing the shock-heated gas and rarefaction-cooled gas), and on the characteristics, dividing regions 2 and 3. Numerical calculations for $\theta = 2239/T_0$, $n = 0$, 1, and 2 indicate that reducing the relaxation time decreases the shock speed and increases the contact surface speed. Orig. art. has: 24 equations and 3 figures.

Card 2/3

ACCESSION NR: AP4044737

ASSOCIATION: none

SUBMITTED: 27Nov63

SUB CODE: ME

NO REF SOV: 000

ENCL: 00

OTHER: 002

Card 3/3

L 46673-66 EWP(m)/EWT(1)/EEC(k)-2/EWP(k)/T IJP(c) RTW/WG/WW
 ACC NR: AP6020720 SOURCE CODE: UR/0421/66/000/003/0020/0023
 AUTHOR: Artamonov, A. K (Moscow); Arkhipov, V. N. (Moscow); Starchenko, G. Ye.
 (Moscow)
 ORG: none 2/ 2/ 742
 TITLE: Relaxation and radiation behind a direct shock discontinuity B
 SOURCE: AN SSSR. Izvestiya. Mekhanika zhidkosti i gaza, no. 3, 1966, 20-23
 TOPIC TAGS: shock wave analysis, shock wave physics, air flow, nitrogen, light radiation, gas relaxation
 ABSTRACT: The problem is formulated as follows: An equilibrium supersonic air stream is incident on a stationary direct shock discontinuity. The translational and rotational energies behind the shock waves are at their equilibrium values, and the processes of vibrational and electronic excitation, dissociation, and ionization (assumed to be single) are not in equilibrium. The electron and heavy-particle temperatures are assumed equal. Radiation due to $N_2 \rightarrow N_2^+$ transitions are taken into account, and other secondary processes are neglected. The chemical reactions taken into account are listed. Vibrational relaxation of O_2 and N_2 is taken into account. Calculations based on the equations of motion of the mixture and various rate constants taken from other papers yield plots of the distribution of various parameters (density, temperature, electron mass fraction, excited- and unexcited-component mass fractions, radiant-energy distribution) for air and for nitrogen. The results agree well with experimental data on the summary radiant fluxes from the nonequilibrium zone.

Card 1/2

L 46673-66

ACC NR: AF6020720

2
behind the shock wave. The authors thank L. S. Kriyona for help. Orig. art. has:
6 figures, 6 formulas, and 1 table.

SUB CODE: 20/ SUBM DATE: 10Jul65/ ORIG REF: 003/ OTH REF: 013

Card 2/2 hs

ARKHIPOV, V. N.

"Research in the Field of Diazo Compounds"., V. V. Kozlov, V. N. Arkhipov, and
A. V. Simanovskaya (p. 697)

SO: Journal of General Chemistry (Zhurnal Obshchei Khimii) 1940, Volume X, no. 8.

ARKHIPOV, Viktor Nikolayevich; KNYAZEV, V.V., red.; BRULIKOVSKAYA,
R.G., tekhn.red.

[Resin from petroleum and chlorine; polyvinyl chloride resin]
Smola iz nefiti i khloro; polivinilkhloridnaya smola. Gor'kii,
Gor'kovskoe knizhnoe izd-vo, 1959. 34 p. (MIRA 13:4)
(Resins, Synthetic) (Ethylene)

ARKHIPOV, V.S.

Myrobalan plum use as graft-stock for plum in the central
part of the R.S.F.S.R. Agrobiologiya no. 3:464-465 My-Je '60.
(MIRA 13:12)

1. Sel'skokhozyaystvennyy institut imeni I.V.Michurina,
g.Michurinsk.

(Plum)

EGRISOGLEBSKIY, A. D., ARKHIPOV, V. S.

Apple

Valuable apple variety--the seedless komsina. Sad i og. No. 6, 1952.

9. Monthly List of Russian Accessions, Library of Congress, _____ 1953. Unclassified.

ARKHIPOV, V.V.; POLOKHIN, P.N.

Recording devices. Priboroostroenie no.1:26-29 Ja '60.
(MIRA 13:5)
(Recording instruments)

ARMITOV, VLADIMIR VASIL'EVICH

Instructions for the manufacture of electrodes for railroad electric smelting furnaces
Moskva, Transzheldorizdat, 1943. 12 p.

Cyr.4 TH5

1. Electrodes, Carbon. 2. Furnaces

ARKHITOV, V. V.

ARKHITOV, V. V. -- "INCREASE OF THE DURABILITY OF TROLLEY-CAR TIRES." SUB 25 NOV 52,
MOSCOW HIGHWAY INST IMENI V. M. MOLOTOV (DISSERTATION FOR THE DEGREE OF CANDIDATE
IN TECHNICAL SCIENCES)

SO: VECHERNAYA MOSKVA, JANUARY-DECEMBER 1952

137-58-4-6847

Translation from: Referativnyy zhurnal, Metallurgiya. 1958, Nr 4, p 76 (USSR)

AUTHOR: Arkhipov, V. V.

TITLE: Waelz Processing of Zinc Cake at the im. S. M. Kirov Electrolytic Plant in Chelyabinsk (Vel'tsevaniye tsinkovykh kekov na Chelyabinskoy elektrolitnoy zavode im. S. M. Kirova)

PERIODICAL: Tr. soveshchaniya po metallurgii tsinka, 1954, Moscow, Metallurgizdat, 1956, pp 218-223

ABSTRACT: The work of the Waelz process department of the im. S. M. Kirov Electrolytic Plant in Chelyabinsk is described.

1. Zinc--Processes

G.S.

Card 1/1

LOVCHIKOV, Vasilii Semenovich; ARKHIPOV, V.V., kand. tekhn. nauk,
dots., otv. red.; GONCHAROVA, I.V., red. izd-va; BOBROV,
P.G., tekhn. red.

[Melting of copper and copper-base alloys; third lecture of
the course "Production of alloys and ingot casting" for
students studying "Founding of ferrous and nonferrous metals
and alloys "]Plavka medi i splavov na osnove medi; lektsiia
tret'ia po kursu "Proizvodstvo splavov i lit'e slitkov" dlia
studentov spetsial'nosti "Liteinoe proizvodstvo chernykh i
tsvetnykh metallov i splavov." Moskva, Vses. zaochnyi poli-
tekh. in-t, 1958. 64 p. (MIRA 15:11)
(Nonferrous metals--Founding) (Copper)

25(1)

PHASE I BOOK EXPLOITATION

SOV/1337

Arkhipov, Vladimir Vasil'yevich; Mikhail Aleksandrovich Kasenkov; Moisey Nissonovich Larin; Yakov Il'ich Ostrovskiy; Kseniya Markovna Pogodina-Alekseyeva; Nikolay Vasil'yevich Sokolov; Gennadiy Dmitriyevich Shevchenko; and Yuriy Vladimirovich Shukhov

Tekhnologiya metallov (The Technology of Metals) Moscow, Mashgiz, 1958. 767 p. 10,000 copies printed.

Eds. (Title page): Sokolov, N.V., Professor and Larin, M.N., Doctor of Technical Sciences, Professor; Eds. (Inside book): Glikin, N.M., Docent; and Brushteyn, B.Ye., Candidate of Technical Sciences, Docent; Tech. Eds.: Uvarova, A.F.; and Sokolova, T.F.; Managing Ed. for Literature on Metal Working and Machine- Tool Manufacture (Mashgiz): Beyzel'man, R D., Engineer.

PURPOSE: This book is intended for students at vtuzes specializing in fields other than machine building.

COVERAGE: This is a textbook presenting basic data on the structure and properties of metals and alloys, as well as methods of producing and processing them.

Card 1/23

The Technology of Metals

SOV/1337

Such matters as casting, forging, welding, and heat treatment are discussed. Modern equipment for all types of metal treatment is described. The seven broad divisions of the book are as follows: metallurgy of ferrous and non-ferrous metals; essentials of physical metallurgy and heat treatment; casting; metal forming; welding and flame cutting; machining; nonmetallic materials. No personalities are mentioned. There are 33 references, all Soviet.

TABLE OF CONTENTS:

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PART I. METALLURGY OF FERROUS AND NONFERROUS METALS	
(V. V. Arkhipov, Candidate of Technical Sciences, Docent)	
Introduction	5
Ch. I. Fuel and Refractory Materials	6
1. Fuel	6
2. Refractory Materials	10
Card 2/23	

ARKHIPOV, Vladimir Vasil'yevich, dots; KASENKOV, Mikhail
Aleksandrovich, dots., kand. tekhn. nauk; LARIN, Moisey
Nisonovich, prof., doktor tekhn. nauk; SOKOLOV, Nikolay
Vasil'yevich, prof. [deceased]; SHEVCHENKO, Gennadiy
Dmitriyevich, dots., kand. tekhn. nauk; SHUKHOV, Yuriy
Vladimirovich, dots., kand. tekhn. nauk; SHCHERBAKOV, G.S.,
red.

[Technology of metals] Tekhnologiya metallov. [By] V.V.
Arkhipov i dr. Izd. 2., perer. Moskva, Vysshaya shkola,
1964. 563 p. (MIRA 17:10)

ARKHIPOV, V. V.

CHEBOTAREV, R. S.,

ARKHIPOV, V. V., and

KOLCSKVA, V. R.

(Department of Parasitology and Invasive Diseases, Sverdlov Agricultural Institute.) Testing of phenothiazine in the fight against parasitic diseases of animals.

Source: Veterinariya; 22; 6; June 1945 uncl
TAECON

ARKHIPOV, V. V.

PA 190766

USSR/Medicine (Veterinary) - Infectious Diseases Mar 51

"On the Possibility of Exterminating the Causative Factor of Anthrax by Planting Certain Crops," V. V. Arkhipov, Cand Vet Sci, L'vov Zoo-Vet Inst

"Veterinariya" Vol XXVIII, No 3, pp 33-35

Found that some crops and grasses (winter wheat, rye, vetch, clover, rhubarb, garlic, and onion) exterminate anthrax bacilli in soil, while others favor their propagation (potato, horse-radish, turnip, radish) or have no effect. Recommends

190766

USSR/Medicine (Veterinary) - Infectious Diseases (Contd) Mar 51

Planting of clover with timothy, alfalfa (which partly suppresses anthrax bacilli) with rye grass *Lolium perenne* L., vetch with oats, etc., to prevent anthrax.

190766

ARKHIPOV, V. V.
USSR/Medicine - Veterinary

FD 322

Card 1/1

Author : Arkhipov, V. V., Docent, Candidate of Veterinary Sciences

Title : Problem of disinfection and protection of soil by means of plant cultivation

Periodical : Veterinariya, 6, 53-54, June 1954

Abstract : Experiments were begun about 3 years ago to determine the relationship between various plants and anthrax microbes and eggs of helminths in soil. Preliminary results revealed that certain plants like allium destroy the eggs of helminths. Much remains unsolved.

Institution : L'vov Zoological Veterinary Institute

Submitted :

Arkhipov, V.V.

USSR / Microbiology. Medical and Veterinary Microbiology. F-5

Abs Jour: Referat Zh.-Biol., No 6, 25 March, 1957, 22059

Author : Arkhipov, V.V., Arkhipova, V.R.

Inst :

Title : The Effect of Chlorpicrin on Anthrax Organisms (Communication 1).

Orig Pub: Sb. nauch. tr. Lvovsk. gos. vet. zootekhn. in-ta, 1955, 7,
110-113

Abstract: Up to now there are no reliable chemical substances which disinfect the soil from anthrax organisms. In this connection a study was conducted of the effect of chlorpicrin on the anthrax bacilli. A day-old broth culture of pathogenic anthrax organisms was introduced into 24 agar plates. A solution of chlorpicrin was added to them in increasing quantities. Of the 6 control plates, 3 were planted with a day-old broth culture and 3 with 5 day-old spore culture of anthrax (85-90% spores). Simultaneously 15 test tubes were inoculated with a meat-peptone broth; to 12 of these chlorpicrin was added. The plates and test tubes

Card : 1/2

-52-

USSR / Microbiology. Medical and Veterinary Microbiology. P-5

Abs Jour: Referat Zh.-Biol., No 6, 25 March, 1957, 22059

inoculated, both test and control, were incubated for 24 hours at 37°. It was found that chlorpicrin and its vapors destroy anthrax organisms, for neither the test nor the control inoculations (the chlorpicrin vapors penetrated the latter in their joint thermostat position) produced any growth. The test was repeated with this change only, that the control plates and test tubes with the inocula were placed in different thermostats. Under chlorpicrin action the inocula of anthrax bacilli produced no growth, and the guinea pigs and mice infected with this substance died from effects of chlorpicrin, for at dissection there were no signs of anthrax upon morphological and bacteriological examination. The control inoculations showed the characteristic growth of anthrax bacilli and also manifested the specific morphologic picture of anthrax in infected guinea pigs and mice.

Card : 2/2

-53-

ARKHIPOV, V.V., kand. vetnauk; TRZHBTSKAYA, T.A., nauchnyy sotrudnik

Testing acidified solutions of sodium silicofluoride and
hydrogen peroxide for disinfecting skins and hides. Trudy
VNIIVSE 13:21-26 '58. (MIRA 11:12)
(Hides and skins--Disinfection) (Silicon fluorides)
(Hydrogen peroxide)

ARKHIPOV, V.V., kand. vet nauk; TRZHETSETSKAYA, T.A., nauchnyy sotrudnik

Studies on the disinfection of buildings in anthrax. Trudy
VNIIVSE 13:44-49 '58. (MIRA' 11:12)
(Anthrax) (Lime, Chloride of)

ARKHIPOV, V.V.

Third plenary session of the Interagency Committee on Research and
Methodology in Anthrax Control. Zhur.mikrobiol.epid.i immun. 31
no.11:166-167 N '60. (MIRA 14:6)
(ANTHRAX)

ARKHIPOV, V.V.

Third plenary session of the Interdepartmental Scientific Methodological Commission for the Control of Anthrax. Veterinariia 37
no.8:92-94 Ag '60. (MIRA 15:4)

1. Postoyannyi chlen Mezhdovedstvennoy nauchno-metodicheskoy komissii
po bor'be s sibirskoy yazvoy.
(Anthrax Congresses)

ARKHIPOV, V.V.

Fourth plenary session of the Interdepartmental Scientific
Methodological Commission for the Control of Anthrax. Zhur.
mikrobiol., epid.i immun. 33 no.4:163-164 Ap '62. (MIRA 15:10)
(ANTHRAX--CONGRESSES)

ARKHANGEL'SKIY, I.I., prof.; DARDA, P.N.; CHISTOV, N.P., kand. veter. nauk;
NIKULIN, V.N.; VOROB'YEV, M.M., kand. veter. nauk (Vitebsk, BSSR);
ARKHIPOV, V.V., kand. veter. nauk

Infection focuses. Veterinariia 41 no.1:29-33 Ja '64.
(MIRA 17:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut veterinarnoy sanitarii (for Arkhangel'skiy). 2. Nachal'nik veterinarnogo otryada postoyanno-deystvuyushchey protivoyashchurnoy ekspeditsii Gosudarstvennogo nauchno-kontrol'nogo instituta veterinarnykh preparatov (for Darda). 3. Leningradskiy nauchno-issledovatel'skiy veterinarnyy institut (for Chistov). 3. Pskovskoye oblastnoye upravleniye proizvodstva i zagotovok sel'skokhozyaystvennykh produktov (for Nikulin).

L 1260-66

ACCESSION NR: AP5024392

UR/0286/65/000/015/0073/0073Q
615.372.002.2 B

AUTHOR: Arkhipov, V. V.; Filonov, Yu. A.; Nechayeva, L. A.; Khrushchev, V. G.;
Perminov, T. A.; Shevyrev, N. S.; Zolozov, I. S.; Belyayev, A. S.; Nozdrachev, A.
I.; Yevglevskiy, A. A.

TITLE: A method for manufacturing tuberculin. Class 30, No. 173381

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 15, 1965, 73

TOPIC TAGS: tuberculosis, immunology, allergen

ABSTRACT: This Author's Certificate introduces a method for manufacturing tuberculin. The method consists of growing a tubercular culture on a nutrient medium, removal of the bacterial matter and filtration. An active and specific allergen is produced and labor-consuming operations are reduced by exposing the culture to Co^{60} γ -radiation.

ASSOCIATION: none

SUBMITTED: 11Jun64

NO REF SOV: 000

ENCL: 00

OTHER: 000

SUB CODE: LS

Card *FR*

KARAVAYEV, V.M.; ARKHIPOV, V.V.; AL'MEYEV, Kh.Sh., prof.; RATNER, I.M.,
veter. vrach; VASIL'YEV, N.T., prof.; ORLOV, F.M.

Reviews. Veterinariia 41 no.10:113-117 0 '64.

(MIRA 18:11)

ARKHIPOV, V.V.; LUR'YE, L.S.; PROKOF'YEV, N.S.; KHRUSHCHEV, V.G.

Prospects for the use of radiation sterilization in veterinary
medicine. Veterinariia 42 no.12:82-84 D '65. (MIRA 19:1)

ARKHIPOV, V.V., inzh.

K-100-61-2 centrifugal compressors. Energomashinostroenie
10 no.2:48 F '64. (MIRA 17:6)

L 14501-66 EWT(m)/T DJ
ACC NR: AP6006344

SOURCE CODE: UR/0413/66/000/002/0066/0066

INVENTOR: Kaplanskiy, A. F.; Gerasimov, B. Ya.; Arkhipov, V. V.

ORG: none

TITLE: Single-stage centrifugal supercharger. Class 27, No. 178014.

SOURCE: Izobreteniya, promyshlennyye obraztsey, tovarnyye znaki, no. 2, 1966, 66

TOPIC TAGS: supercharger, centrifugal supercharger, internal combustion engine

ABSTRACT: The proposed supercharger contains a housing with an impeller and a

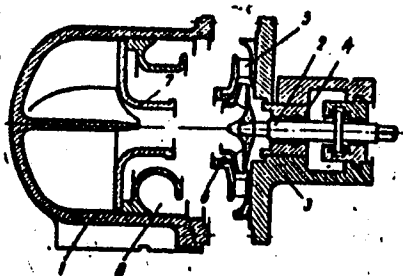


Fig. 1. Supercharger

1 - Housing; 2 - impeller; 3 - cap;
4 - impeller bearings; 5 - vaned diffuser;
6 - covering disk seal; 7 - intake manifold; 8 - pressure chamber.

Card 1/2

UDC: 621.515.5-146.1

L 14501-66

ACC NR: AP6006344

removable circular cap (see Fig. 1). To simplify assembly and regulation of the clearances, the impeller with bearings the vaned diffuser, and the seal of the covering disk of the impeller wheel are located in the cap, while the intake manifold and pressure chamber are mounted in the housing. Orig. art. has: 1 figure.

[TN]

SUB CODE: 21/ SUBM DATE: 08Apr64/ ATD PRESS: 4199

OC
Card 2/2

ARKHIPOV, Vsevolod Yakovlevich; KULIKOV, Oleg Nikolayevich; CHIZHOV, K.,
otv.red.; FILIPPOVA, E., red.; LEBEDEV, A., tekhn.red.

[Finance and banks of Indonesia] Finansy i banki Indonezii.
Moskva, Gosfinizdat, 1960. 95 p. (MIRA 14:3)
(Indonesia--Finance)

ARKHIPOV, Vsevolod Yakovlevich; PANKIN, M., red.; CHIZHOV, K., red.;
NADEZHDIINA, A., red.; LEBEDEV, A., tekhn.red.

[Foreign capital in the economy of southeastern Asian countries]
Inostrannyi kapital v ekonomike stran Iugo-Vostochnoi Azii.
Moskva, Gosfinizdat, 1960. 150 p. (MIRA 14:3)
(Asia, Southeastern--Investments, Foreign)

ARKHIPOV, Vsevolod Yakovlevich; PANKIN, M.S., otv. red.; GARMSEN, O.M.,
red.; BERESLAVSKAYA, L.Sh., tekhn. red.

[Indonesia in the struggle for economic independence]Indoneziia v
bor'be za ekonomicheskuiu samostoiatel'nost'. Moskva, Izd-vo
vostochnoi lit-ry, 1963. 77 p. (MIRA 16:3)
(Indonesia—Economic policy)

L 07099-67 EWT(1)/EWT(m)/EWP(t)/ETI IJP(c) JD/JG

ACC NR: AP6029110

SOURCE CODE: UR/0048/66/030/006/0968/0971

AUTHOR: Klyushin, V.V.; Sidorov, S.K.; Kelarev, V.V.; Getman, I.Ya.; Arkhipov, V.Ye.

ORG: Institute of Metal Physics, Academy of Sciences of the SSSR (Institut fiziki metallov Akademii nauk SSSR)

TITLE: Antiferro-ferromagnetic phase transition in the $\text{Fe}(\text{Pt}_x\text{Pd}_{1-x})_3$ system [Report, All-Union Conference on the Physics of Ferro- and Antiferromagnetism held 2-7 July 1965 in Sverdlovsk]

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 30, no. 6, 1966, 968-971

TOPIC TAGS: phase transition, ordered alloy, electric resistance, spontaneous magnetization, coercive force, iron alloy, platinum alloy, palladium alloy

ABSTRACT: The $\text{Fe}(\text{Pt}_x\text{Pd}_{1-x})_3$ system was selected for investigation in view of its suitability for study of the behavior of the antiferromagnetic-ferromagnetic phase transition. The end compositions $\sim \text{FePt}_3$ and FePd_3 are binary alloys with known properties, which become ordered (AuCu_3 type ordering) at 710 and 820°C, respectively. The mixed ternary alloys (with 25 atomic percent iron) are also characterized by AuCu_3 type ordering. The investigated compositions are tabulated (16 different specimens); the specimen preparation procedure and the resistivity measurement method were the same as described by V.V.Klyushin, I.Ya.Getman, V.N.Zubankov, and V.V.Kelarev (Fiz. metallov i metallovedeniye, 21, 153, 1966). The temperatures of the phase

Card 1/2

L 07099-67

ACC NR: AP6029110

transitions were determined from the anomalies in the temperature dependences of the electric resistivity. Also measured were the values of the spontaneous magnetization and the coercive force. These were determined by means of a vibrating magnetometer to within 3% for rod specimens. The composition dependences of the Neel and Curie points, the magnetic moment and the coercive force are presented in figures. A radical change or break in the curves is evinced in the region of 37 to 50 atomic percent Pd. The results and specifically the probable character of the antiferromagnetic phase transition are discussed at some length. It is concluded that the transition is realized by the process described by S.K.Sidorov and A.V.Doroshenko (Fiz. metallov i metallovedeniye, 18, 811, 1964), involving gradual rotation of the magnetic moments in the entire volume of the specimen or appearance of ferromagnetic phase nuclei in the antiferromagnetic phase and the growth of these nuclei. Which of these mechanisms predominates will be determined in further studies. Orig. art. has: 1 table and 2 figures.

SUB CODE: 20,07

SUBM DATE: 00

ORIG, REF: 005 OTH REF: .007

Card 2/2

blh

ARKHIPOV, V.Ye., inzh.

Utilization of heat from scavenging and drainages of a thermal
electric power plant. Elek. sta. 36 no.11:82-83 N '65.

(MIRA 18:10)

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73 F '65. (MIRA 18:4)

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Material responsibility and an incentive to harbors for cargo handling. Rech. transp. 21 no.6:17-19 Je '62. (MIRA 15:7)

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izd-vo "Fiskul'tura i sport," 1959. 123 p. (MIRA 12:6)
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Kuznetsov) 2-go bol'nichno-poliklinicheskogo ob'yedineniya g.
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(CALCULI, BILIARY)

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(STOMACH—SURGERY) (INTESTINES—ABNORMALITIES AND DEFORMITIES)

ARKHIPOV, Ye.P. (Bugul'ma, Tatarskoy ASSR)

Hypnosis in surgical practice. Kaz. med. zhur. no.1:74-75
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Nonparasitic cyst of the liver associated with calculous cholecystitis. Vest. khir. 92 no.5:81 My '64.

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NIKIFOROV, V. K.

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SHTENTSEL', V.K., retsenzent; ARKHIPOV, V.K., retsenzent;
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Rechnye porty. Moskva, Izd-vo "Rechnoi transport," 1958.
370 p.

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(MIRA 14:7)

(Loading and unloading)

SMIRNOV, Yevgeniy Vasil'yevich, kand. tekhn. nauk; AL'TSHULER, Yakov
Yeremeyevich, inzh.;; ARKHIPOV, Ye.Ye., retsenzent; ANTONOV,
M.P., red.; FEDYAYEVA, N.A., red; izd-va; BODROVA, V.A., tekhn.
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[Hoisting devices for cranes] Gruzozakhvatnye ustroistva dlia kranov.
Moskva, Izd-vo "Rechnoi transport," 1961. 161 p. (MIRA 14:9)
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ARKHIPOV, Yu., inzh.-elektrik, assistant

Operation of two d.c. propeller motors on a single generator
during maneuvering. Mor. flot 18 no.4:11 Ap '58. (MIRA 12:12)

1.Odesskoye vyssheye morekhodnoye uchilishche.
(Ship propulsion, Electric)

28(5)

AUTHORS:

Gorfinkel', B. I., Arkhipov, Yu. A.

TITLE:

Dynamic Method of Investigating

Gas Separation

PERIODICAL:

Zavodskaya laboratoriya, 1959, Vol 25, Nr 10, pp 1213-1214
(USSR)

ABSTRACT:

Several authors (Ref 1) investigated the gas separation from various bodies in the vacuum. These tests were, however, carried out under stationary conditions. As it is also necessary to examine rapid processes under nonstationary conditions, a dynamic method of investigating the total gas separation was developed. The device used (Fig 1) includes a vacuum system (with 2 vacuum pumps), a vacuum furnace (in which the sample is heated by sending through a high-frequency current), as well as a pressure gage transmitter and the measuring device. A resistance pressure gage especially adjusted for low-pressure measurements was used as a pressure gage transmitter. The pressure gage is a balloon with water cooling having a tungsten wire (cross section $3 \times 50 \mu$, length 70 mm) inside. The pressure gage transmitter showed a practically linear dependence between pressure and discharge signal (in the range of $1 \cdot 10^{-2}$ to $10 \mu\text{Hg}$). Maximum sensitivity of the pressure gage $I = 2.4 \text{ ma}/\mu\text{Hg}$. The

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Dynamic Method of Investigating

Gas Separation

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diagram of the measuring arrangement (Fig 2) shows that a loop oscillograph of type MP0-2 is used. The signal is obtained proportional to the rate of pressure variation by means of a differentiating circuit. Equations are indicated for computing the results from the signals obtained, as well as two oscillograms (Fig 3) obtained in gas separations from a nickel-, and an aluminized iron lamina (0.2 mm thick) at 800°. The maximum rate of gas separation was determined with 0.095, and 0.18 Hg/sec cm², respectively. There are 3 figures and 1 Soviet reference.

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SOURCE CODE: UR/0188/66/000/002/0093/0096

AUTHOR: Cheremushkina, A. V.; Arkhipov, Yu. N.

ORG: Department of Magnetism (Kafedra magnetizma)

TITLE: Temperature dependence of the Hall effect and of the electric resistance in Fe-Si-Al alloys of the 'Sendast' type

SOURCE: Moscow. Universitet. Vestnik. Seriya III. Fizika, astronomiya, no. 2, 1966, 93-96

TOPIC TAGS: Hall effect, resistivity, temperature dependence, iron nickel alloy, permalloy, magnetic anisotropy, magnetostriction

ABSTRACT: This is a continuation of earlier work (FTT v. 6, 539, 1964) where it was shown that in iron-nickel alloys the small bodies of the ferromagnetic Hall constant and small values of the magnetic anisotropic constant have approximately similar compositions (approximately 80% nickel). The present research was carried out on Fe-Si-Al alloys similar in their behavior to permalloy in that they have small magnetic anisotropy and magnetostriction. The preparation of the samples is described. The Hall emf was measured by a procedure given in an earlier paper (Vestn. Mosk. un-ta, ser. fiz., astron., no. 2, 7, 1957; no. 1, 7, 1958). The resistivity was measured with a potentiometer in the same samples. Measurements at high temperatures were made

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in a vacuum of 10^{-2} -- 10^{-3} mm Hg. The results show that in the temperature range 20 -- 500C, the ferromagnetic Hall constant R_H and the electric resistivity ρ are connected by the relation $R_H = a\rho + b\rho^2$, the parameters a and b being functions of the alloy composition. Both parameters are found to be dependent on the relative concentrations of the components, a being larger for alloys with larger electric resistivity and being one order of magnitude smaller than for Fe and Fe-Si and Fe-Al alloys. In some of the alloys, b was close to zero, just as in permalloy. The results agree with the theory proposed for this phenomenon by Ye. I. Kondorskiy (ZhETF no. 6, 2085, 1964). The authors thank Professor Ye. I. Kondorskiy for suggesting the topic and discussing the results. Orig. art. has: 4 figures, 3 formulas, and 2 tables.

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