Concise Handbook (Cont.)   SOV/5425

PART FOUR. REACTOR CONSTRUCTION (YU. I. KORYAKIN)

PART FIVE. PROTECTION FROM REACTOR RADIATION (I. A. STENBOK)

PART SIX. PLASMA PHYSICS AND THERMONUCLEAR REACTIONS (V. I. PISTUNOVICH)

Card 6/13

Concise Handbook (Cont.)   SOV/5425

Card 7/ 13

Concise Handbook (Cont.)   SOV/5425

PART SEVEN. ACCELERATORS OF CHARGED PARTICLES
(I. S. DANILKIN AND B. N. YABLOKOV)

Card 8/13

L 18265-65   EWT(1)/EWG(k)/EPA(sp)-2/EPA(w)-2/EEC(t)/T/EEC(b)-2/EWA(m)-2
Pz-6/Po-4/Pab-10/P1-4   IJP(c)/ASD(p)-3/AFWL/AFETR/RAEM(a)/SSD/SSD(b)/AEDC(b)/
ESD(gs)   AT

ACCESSION NR: AP5000912   S/0020/64/159/004/0779/0781

AUTHOR: Pistunovich, V. I.; Timofeyev, A. V.

TITLE: Concerning the heating of electrons in an anisotropic plasma

SOURCE: AN SSSR. Doklady, V. 159, no. 4, 1964, 779-781

TOPIC TAGS: plasma instability, electron heating, plasma electron, plasma ion,
low pressure plasma, adiabatic trap

ABSTRACT: It is shown that the instability relative to the buildup of potential
oscillations, observed previously in low-pressure plasma with anisotropic dis-
tribution of ion velocity, is developed on the negative-energy oscillation branch,
and that its development should be accompanied by intense absorption of energy by
resonant electrons (Landau damping). The analysis is carried out for an aniso-
tropic, collisionless, and spatially homogeneous plasma in a magnetic field. The
results indicate that the anomalous heating of electrons, observed in adiabatic
traps by other investigators, may be due to the buildup of this instability. In
the case of a dense plasma, dissipative instability can develop as a result of
collisional dissipation of energy and can lead to a similar instability. "The

Card 1/2

L 18265-65
ACCESSION NR: AP5000912

authors are grateful to B. B. Kadomtsev and A. B. Mikhaylovskiy for a discussion of the work." This report was presented by Academician M. A. Leontovich. Orig. art. has: 1 figure and 3 formulas.

ASSOCIATION: None

SUBMITTED: 16Jun64

SUB CODE: ME   NR REF SOV: 006

ENCL: 00

OTHER: 002

Card 2/2

PISTUNOVICH, V.I., T.M.FERYFV, A.V.

    Heating of electrons in an anisotropic plasma. Dok. AN SSSR
159 no.4:??-?? ?? 1??

    1. Predstavleno akademikom M.A. Leontovichem.

AUTHOR: Pistunovich, V. I.

TITLE: The cyclotron instability of the "OGRA" plasma

PERIODICAL: Atomnaya energiya, v. 14, n. 1, 1963, 77-81

TEXT: Strong electron ... with cyclotron frequency ...
observed in the plasma ... "OGRA". ... only by a ... electron
density ... effect ... can be excited ...
oscillations of the molecular and ... ions can be excited ...
in the "OGRA" plasma. If with increasing plasma density the
frequency of the electrons becomes equal to or larger than the ion ...
cyclotron frequency, there may arise a resonance between the ion rev ...
and the longitudinal oscillations of the electrons, leading ...
increase of small density perturbations - during ~ 30 ω_{Hi}^{-1} the field increase
increases three times. The maximum increment of the instability increase

$$ \text{is } (Im\,\omega)_{max} \approx \frac{\sqrt{7}}{2}\sqrt{\frac{m_e}{4M}}\cdot\frac{\delta}{\sqrt{1-\beta^2}}J_m^{2/3}(t)\,\omega_{Hi} \quad (11). \text{ The most unstable are} $$

Card 1/4

The cyclotron instability of ...

the waves with ... and with a length of the order of ion Larmor radius.
The condition for the appearance of this instability is given by

$$1 + \beta^2 \, \frac{\ldots}{(m \ldots - k_z v \ldots)} \ldots$$

Card 2/4

The cyclotron instability of ...

$-k_z v_\perp$. Theoretically, a qualitative description of the observed effects can be given provided that the ions in the plasma satisfy the inequality $T_\perp > T_\parallel > 10$ where $T_\perp$ is the mean kinetic energy of the transverse motion of the ions. Detailed investigation showed that in addition to the H_2^+ cyclotron frequency $f_1 = 2.0$ Mc the signal of the proton cyclotron frequency $f = 4.0$ Mc was also recorded. Since $f = f_2$ injection with $I=10$ ma, $T_\perp > T_\parallel > 25$ Ev. This is satisfied only when $n_e > 6 \cdot 10^3$ cm^{-3}. Measurements at $I=0.1$ ma and $p=\cdot 10^{-7}$ mm Hg showed that, with the current increasing beyond 0.1 ma, the f_1 frequency rapidly increases, followed by f_2. f_2 increases about sixfold when the current increases from 0.2 to 0.7 ma. The existence of density waves with different velocities can lead to an increase of T_e and to the electrons escape from the traps of. Kucheryayev, Papov, J.Nucl. Energy, Part 2, in press). Because of cyclotron instability there can be stronger

Card 3/4

The cyclotron instability of ...

interaction ...
nonlinear effects, ... other is a consequence of ...
to H can cause a ... drift if the phase velocity of the wave ...
approaches the ion velocity. These effects are further investigated.
There are 3 figures and 1 table.

SUBMITTED: November ..., ...

Card 4/4

PISULA, Feliks, mgr inz.

Major problems of water and sewage management in the industry.
Post wodna i... no. 3/4,... Ap...

... Ministry and ... GALA, Warsaw.

... iven Names
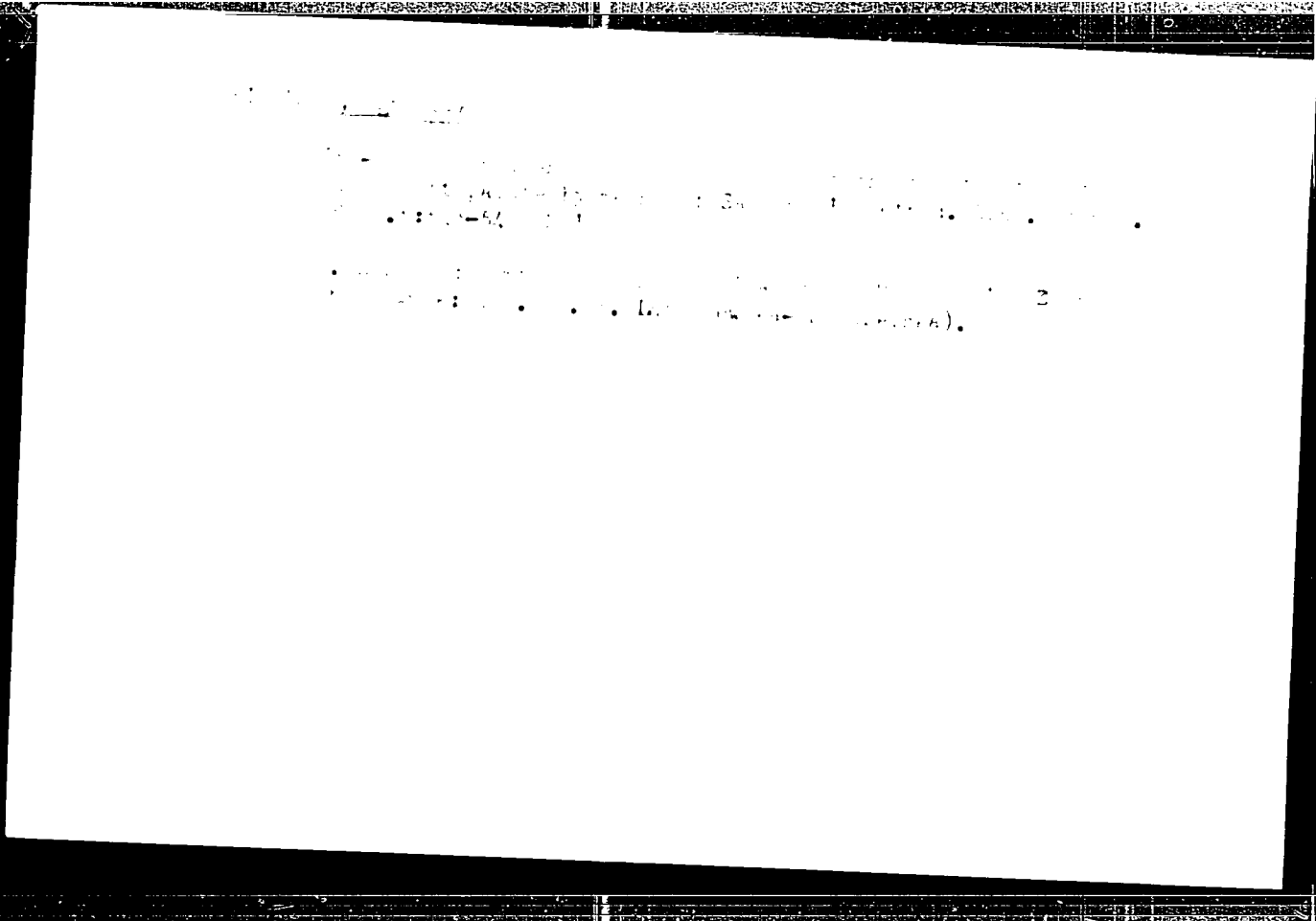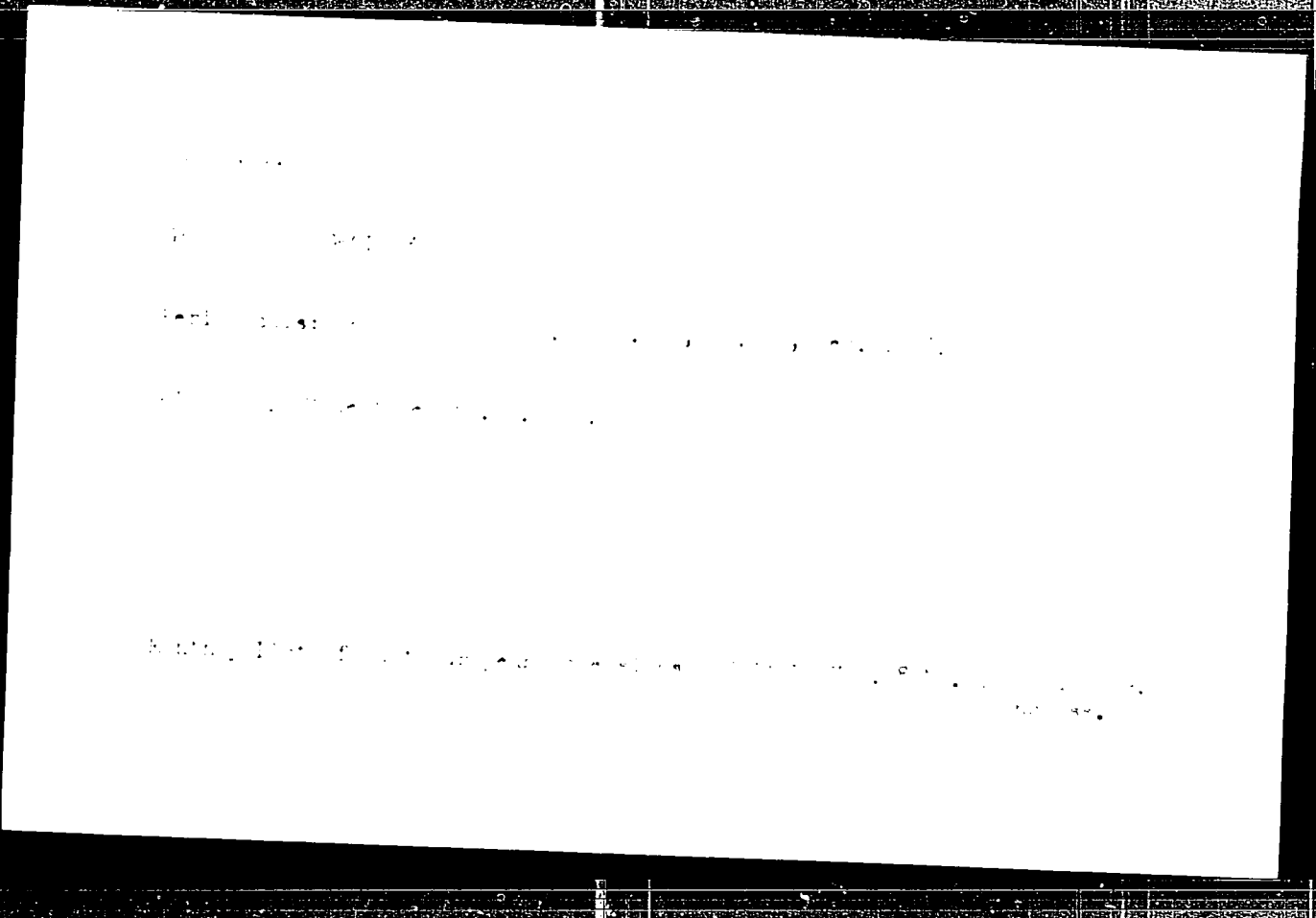
Country: . . . .

Academic Degrees: . . . . . /

Affiliation: Slovak Museum (Slov.... . museum), Bratislava

Source: ....ava, Aca Vera, Vol VIII, No 10, 1961; pp ccc-...

Data: ".... and the Lichens."

GPO 98.64)

CZECHOSLOVAKIA

PISUT, Ivan and OPOLD, Ladislav; National Museum of Slovakia (Slovenske narodne muzeum,) Bratislava.

Incidence of Some Lichens of the Cladonia Genus in the Vicinity of Nitra.

Bratislava, Biologia, Vol 18, No 7, 1963; pp 530-532.

Abstract: Detailed description of 3 heretofore rare lichens found by the junior author in 1961-62: Cladonia magyarica Vain., C. furcata subsp. subrangiformis and C. foliacea (Huds.) Frege. Habitats and taxomomic synonymy and history. Photograph, 7 Czech references.

1/1

PISUT, Ivan

A find of a species of Juniperus sabina L. in the Slovak part of the Pieniny Mountains. Biologia 15 no 12:926-127 'c0

(EEAI 10 8)

(CZECHOSLOVAKIA--JUNIPER)

FIDRT, V.; PECMOVA, L.; LANGER, J.

Malignant thymoma as a cause of hydropericardium. Bratisl. lek.
listy 41 [t 1 no.4:548-554 1 1.

1. I interna klinika Lek. fak. Un. Komenskeho v Bratislave,
veduci prof. MUDr. M. Ondrejicka, Istav patologickej anatomie
Lek. fak. Univ. Komenskeho v bratislave, veduci doc. MUDr.
M. Brozman.

     (THYMOMA)   (PERICARDITIS)
     (EXUDATES AND TRANSUDATES)
     (HEART FAILURE, CONGESTIVE)
     (ELECTROCARDIOGRAPHY)

PISUT, V; POLO OVA, L; LANIER, J.

1. First Internal Medicine Clinic of the Medical Faculty
   of Komensky University (I. Interna Klinika Lek. Fak.
   Univ. Komenskeho), Bratislava; 2. Institute of Patho-
   logical Anatomy of the Medical Faculty of Komensky
   University (Ustav patologickej anatomie Lek. Fak.
   Univ. Komenskeho, Bratislava for all.)

Bratislava, Bratislavske lekarske listy, No 4, 1 , 19

"Malignant Thymoma as the Cause of Bronopneumonia."

PISUT, Vl., JENCA, G.

Clinical & x-ray findings using morphine & dolantin in intravenous
Bratisl. lek. listy. Cesk. rentg. 12 no.3:165-170 Sept 58.

1. I. interna klinika FN v Bratislave, predn. prof. M. Ondrejicka
VL. P., Zochnsova 9, Bratislava.
(CHOLANGIOGRAPHY,
adjuvant meperidine & morphine in intravenous cholangiocy-
stography (Cz))
(MEPERIDINE, ther. use
adjuvant in intravenous cholangiocystography (Cz))
(MORPHINE, ther. use
same)

L 57446-65   EWP(1)   Po-4/Pq-4/Pq-4/Pae-2/Pk-4/Pl-4   IJP(c)   BC
ACCESSION NR: AP5019303   CZ/0026/64/009/005/0385/0385

AUTHOR: Pisutova, N.

TITLE: Conversion program from the pseudocode of the LGP-30 computer to the code
of the ZRA-1 computer

SOURCE: Aplikace matematiky, v. 9, no. 5, 1964, 385

TOPIC TAGS: computer, computer program/ LGP-30 computer, ZRA-1 computer

ABSTRACT: A brief report on two conversion programs (an interpretation program and
a compilation program) prepared at the Institute of Automation and Mechanization
(Ustav automatizacie a mechaniky), Slovak Academy of Sciences, in Bratislava.

ASSOCIATION: none

SUBMITTED: 00   ENCL: 00   SUB CODE: DP

NR REF SOV: 000   OTHER: 000   JPRS

Card 1/1

MAL., Vladimir Sergeyevich; LIITYAK,
    MATIEVICH, fu.I., red.

    [New types of crimes and linked vae ..et, from the
    practices of the Consumer Association of the ...P....;
    Novye vidy selenykh i kvazhenykh nvost hei, iz opyta ra-
    boty potrepselizov i P.. " skva, Rectorian, 24... 5(;.

                                         N.. K (P...

PIS'YAUKOVA, V.V.

Notes on the genus Swertia L. Bct. mat. Gerb. 21:292-313
'61.   (MIRA 14:10)
                              (Swertia)

PIS'YAUKOVA, V.V.

    Notes on the genus Swertia L. Report No. 2. Bot.mat.Terb. 22:201-
    215 '63.   ('IERA 17:2)

PIS'YAUKOVA, V. V.

Dissertation defended in the Botanical Institute imeni V. L. Komarov for the academic degree of Doctor of Biological Sciences:

"Review of Swertia Z. Species of the USSR (Material for a Monograph on the Genus)."

Vestik Akad Nauk No. 4, 1963, pp. 119-145

PIS'YAUKCVa, V.V.

Description of the aquatic vegetation of the lower Amur River.
Uch. zap. Ped. inst. Gerts. 178:37-47 '59.   (MIRA 14:7)
                    (Amur River--Aquatic plants)

P... C... EV, V.

The influence of the curvature of an originally curved bar on the resonance regions
of plane form of bending. p. 166.
(ARCHIWUM MECHANIKI STOSOWANEJ. Vol 9, no. 2, 195 , Warsaw, Poland)

SO: Monthly List of East European Accessions (CEAL) LC, Vol, 6, No. 9, Se t. 1959 Incl.

Piszczek, K.

26

3

The Influence of the Curvature of an Originally Curved Bar on the Response Regions of Plane Form of Bending. Karl-mann Piszczek. Arch. Mech. Stosowanej, No. 2, 1957, pp. 155-189. Analysis to determine the resonance regions of the plane form of bending of a beam subjected to moments acting at the ends and having, in the nondeformed state, a constant curvature 1/R in the plane of maximum rigidity. Results are obtained for simply supported and built-in ends for several values of the radius R.

Baag

PISYA: VA, N. M.

"Observations on the Penetration of Solar Radiation Through Ice," pp   -cc (.d, age .
(Meteorologiya i Gidrologiya, No 6 Nov/Dec 19.)

Sc: U-3216, 3 Apr 1953

PISYAREVA, N. M.

"Observations on the Penetration of Solar Radiation Through Ice," Ho 4, pp 2 - 6.
(Meteorologiya i Hidrologiya, No 4 Nov/Dec 1947

Sg: W-30138, 3 Apr 1950

PISYAKOVA, N. M.

Solar Radiation

Observation of the registrat... ... ... ice. ... ...
194"

Monthly list of Russian Access... Litra... ... ...

AVRORIN, N.A.; KUZENEVA, O.I.; ORLOVA, N.I.; PIS'YAUKOVA, V.V.; POYARKOVA,
A.I.; ZEMKHOVA-TYAN-SHANSKAYA, N.Z.; CHERNOV, Ye.G.; SHLYAKOV, R.N.;
TVERITINOVA, K.S., tekhnicheskiy redaktor

[Flora of Murmansk Province] Flora Murmanskoi oblasti. Moskva, Izd-vo
Akademii nauk SSSR. No.3. 1956. 449 p.   (MLRA 9:11)
    (Murmansk Province--Botany)

GORDEYEVA, Tamara Nikolayevna; ZAVALISHINA, Sofiya Fedorovna; KRUBERG,
    Yuliy Karlovich; PIS'YAUKOVA, Vera Vasil'yevna; STRELKOVA, Ol'ga
    Stepanovna; GURDENITEVA, A.M., tekhnicheskiy redaktor

[Summer field work in botany; manual for pedagogical institutes]
Letniaia polevaia praktika po botanike; posobie dlia pedagogiche-
skikh institutov. Leningrad, Gos. uchebno-pedagog. izd-vo Minister-
stva prosveshcheniia RSFSR, Leningradskoe otd-nie, 1954. 285 p.
        (Botany--Field work)   (MIRA 8:7)

PIS'YAUKOVA, V.V.

New species of Central Asiatic violet. Bot.mat.Gerb. 15:177-18:

(MIRA 7 ?)

(Asia, Central--Violets) (Violets--Asia, Central)

PIS'YAUKOVA, V.V.

Genus Ajuga. Flora SSSR 20:20-39 '54. (MLRA 7:7)
(Labiatae)

GOROBTSVA, '.N.; KRUBKRO, Yu.K.; PIS'YAUKOVA, V.V.; SHISHKIN, B.K.,
professor, redaktor.

[Practical course in plant classification; textbook for peda-
gogical institutes] Prakticheskii kurs sistematiki rastenii; po-
sobie dlia pedagogicheskikh institutov. Pod red. B.K.Shishkina.
Moskve, Gos. uchebno-pedagog. izd-vo, 1953. 379 p.   (MLRA 7:7)

1. Chlen-korrespondent Akademii nauk SSSR (for Shishkin)
          (Botany--Classification)

PISZ, Z.; FRONEK, A.; with the technical assistance of A. Steidlova

The influence of occlusion of a coronary artery on the contraction
of heart muscle. Physiol. bohem. 5 no.2:224-233 1956.

1. Institute for Cardiovascular Diseases, Prague.
        (HEART, blood supply,
              eff. of occlusion of coronary artery on contractions of
              heart musc.)

PISZAK, Jur; PODREICKI, Czeslaw

Professor Czeslaw Kalata, his scientific, teaching, and professional activities. Przegl [...] 1963-64 Nr '65.

PISZAR, J.

Influence of the mode of testing and taking strength samples on
the certainty of acceptance of concrete mixes. p. 35

KUNJ BUDOWLANA   vol. 5, no. 2, 1955 (published 1956)

Poland

80. EAST EUROPEAN ACCESSIONS LIST. vol. 5, no. 10 Oct. 1956

FISCAL, J.

"Development of the Department of Trai... ... and ... of the ... un... ... ..."
(Radium), interim dissertation, Praze, ...

X: Eastern European Accession Li..., ... , ... , ... , ...

FISZAK, J.

Properties of Modified Cast Iron J. Fiszak (Przeglad
odlewnictwa, 1952, 2, Mar., 79-87. [In Polish] A definition,
for modified cast iron is proposed. The influence of the
structure of this iron on its mechanical and technological pro-
perties is outlined, and the results of the investigation of the
mechanical and casting properties are tabulated. V. G.

Properties of Iron B

Properties of Modified Cast Iron. J. Pusak (*Przeglad Odlewniczy*, 1952, **8**, Mar., 79-87) [In Polish]. A definition for modified cast iron is proposed. The influence of the structure of this iron on its mechanical and technological properties is outlined, and the results of the investigation of the mechanical and casting properties are tabulated. — v. a.

Centrifugal Casting of Sewage Pipes.

βA

Ferrous
Metallurgy

Centrifugal casting of sewage pipes.] Dacek (Vrseplad Oldrem. 1962. 8. No. 1. 16-18. / *Iron Steel Inst.* 1962. 171. 324) —The necessary equipment is described and the advantages of the technique are discussed.   N H CLARKE

PISZCZAK, Stanislaw; PITSCHKE, Czeslaw

Psychological aspects of labor studies. Wiad naft 10 nc. 1:
1C-21 Ja '64.

PISZCZEK, Antoni, mgr inz.

After ten years and in ten years. Przegl techn 84 no.48:6
1 D '63.

STARZYK, J.; DUTKIEWICZ, J.; PISZCZ, K.

A test of the vitality of the protozoon Toxoplasma gondii by means of the safranine test. Wiadomosci parazyt. 7 no.2:431-432 '61.

1. Zaklad Mikrobiologii Wydz. Farm. A.M., Krakow.

(TOXOPLASMA pharmacol)   (DYES pharmacol)

P. :9;., '%., `%., J% >
A?22/A026

AUTHOR   Piszczek, Kazimierz

TITLE·   Parametric Combination Resonance in Non Linear Systems

PERIODICAL Rozprawy Inżynierskie, 1960, Vol 8. No 2, pp 2.1-229

TEXT   The problem of combination resonance (of the second kind) is con-
sidered for a model constituting a homogeneous beam with constant double tee
cross-section whose vibration is excited parametrically by a concentrated
force in its center point and in the plane of maximum rigidity, perpendicular
ly to the beam axis. The geometric non-linearity is accounted for by assuming
that the ends do not approach each other The axial reaction force is assumed
to be due to both the transverse displacement of the points of the axis and
the rotation of the cross-sections For the shaking force it is assumed that
(1) it does not change direction, (2) it rotates together with the cross-sec-
tion, the relative position not being changed It is found that the parametric
resonance appears in the neighborhood of the shaking frequency equal to the
sum of free frequency in the case where the force preserves its direction dur
ing the process of vibration In the case of rotating load, parametric re

Card 1/2

F JOK U. JOE K. .   . .
A222/A02t

Parametric Combination Resonance in Non Linear Systems

sonance is possible in the neighborhood of the angular having frequen...
to the difference of the angular frequencies of free vibration. From ...
siderations it also follows that with the same value of P_i the width of the
resonance region, in case of the "rotating" for a. is less than the width
the resonance region for a load preserving its direction during the vibration
process. In the case of "rotating" load, amplitude increases with increasing
frequency. There are 3 figures and 4 references 2 Soviet and 2 German

ASSOCIATION   Zaklad Badania Drgan IPPT PAN (Department of Vibration Research
              Institute of Fundamental Engineering Problems, Polish Academy
              Sciences)

SUBMITTED   October 20, 1959

Card 2.c

Piszczek, K.

Distr. LP:

Taking only one term of the determinant into consideration, approximate boundary curves of the basic resonance region are derived.

Piszczek, K.

Some particular cases of boundary curves are discussed:
(1) The cross section has two axes of symmetry and the force is attached to the centroid of the cross section or to an arbitrary point of the symmetry axis. (2) The cross section has one axis of symmetry and the force acts at the center of transversal forces.
The influence on the magnitude of the resonance regions of the position of the force (dynamical constraints) and that of some cross section parameters (geometrical constraints) are discussed on a numerical example.   M. Piszek, Poland

5

PISZCZEK, KAZIMIERZ

Wpływ Więzów Geometrycznych i Dynamicznych na Obszary Rezonansowe w Zagadnieniu Stateczności Dynamicznej Pręta Cienkościennego o Profilu Otwartym. [Author] K. Piszczek. Rozprawy Inżynier. [Journal] No. 1, 1957, pp. 207-228. In Polish with summaries in English and Russian. Analysis of the geometrical and dynamical constituents of resonance regions in the problem of dynamic stability of a thin-walled bar with open cross section.

PISZCZEK KAZIMIERZ

3

DRGANIA PODŁUŻNE I POPRZECZNE PRĘTA POD DZIAŁANIEM PULSUJĄCEJ SIŁY OSIOWEJ JAKO ZAGADNIENIE MIELNIOWE (LONGITUDINAL AND TRANSVERSAL VIBRATIONS OF A ROD SUBJECTED TO AXIALLY PULSATING FORCE, TAKING NONLINEAR MEMBERS INTO CONSIDERATION). Kazimierz Piszczek. Arch. Mech. Stosowanej (Warsaw), no. 3, 1959, pp. 349--361. In Polish, with summaries in English and Russian. Study of the problem of dynamic stability of a rod of constant cross-section with both ends hinged under axial loading, applying the Hamilton principle to deduce the basic system of equations under the assumption of a simplified model in the form of a one-degree-of-freedom system for longitudinal and transverse vibrations and of a further simplifying assumption to eliminate the effects of these vibrations, taking into account the influence of transversal deflections on axial displacements and of the physical nonlinearity represented by stress-strain relations in the form of a third degree polynome with two material constants.

Piszczek, Kazimierz

Piszczek, Kazimierz. Longitudinal and transversal vibra-
tions of a rod subjected to axially pulsating force,
taking nonlinear members into consideration. I. Arch
Mech. Stos. 7 (1955), 345–362. (Polish, Russian and
English summaries)

The author investigates a problem of dynamic stability
of a straight vertical rod of constant cross-section hinged
at the upper and lower ends and under an axial load of the
form $P = P_0 + P_1 \cos \omega t$. His main considerations are
longitudinal vibrations but the influence of the transverse
deflection is taken into account. The physical non-
linearity of the system consists of the non-linear stress-
strain relation. The stress is not a linear function of the
strain but is a third-degree polynomial of the strain.

The system of equations controlling vibrations of such
a rod is obtained from Hamilton's principle. To solve this
system the author introduces the following simplifying
assumptions: (i) the model has only one degree of freedom
for longitudinal and transverse vibrations, and (ii) the
longitudinal vibrations do not influence the transverse

Piszczek, Kazimierz.

vibrations. Using these assumptions and applying Galerkin's method he reduces the system to the well known Mathieu differential equation whose solutions are sine and cosine type Mathieu functions. The author makes a detailed analysis of the eigenvalues (related to the frequencies of the forced vibrations) for which the system is stable or unstable.   *T. Leser* (Aberdeen, Md.).

Piszczek, K.

108/122   624.071.3
Longitudinal and Transversal Vibra-   Arch.Mech.Stosow.
tions of a Rod Subjected to Axially   7(3),345-362
Pulsating Force, taking Non-linear   1955
Members into Consideration
    K. Piszczek   Poland

The basic system of equations, deduced from Hamilton's
principle, is solved with some additional assumptions.
A simplified model is taken, in the form of a system with
one degree of freedom for longitudinal and transversal
vibrations. The necessary assumption is made to
eliminate the influence of longitudinal vibration on
transversal vibration. (Bibl. 10)

~~KNZIMIERE~~, T.

PISZCZEK, Kaj.

2

1·F\W

1969:

Piszczek, Kazimierz. **Dynamical stability of plane form of bending with various boundary conditions.** Rozprawy Inż. 4 (1956). 175–225. (Polish. Russian and English summaries)

The paper deals with the boundary problem for the equation $(d^2y/dt^2)+(\lambda+\gamma_1\cos t+\gamma_2\cos 2t)y=0$. Using a method analogous to that used for Mathieu's equation, the eigenvalues $\lambda=\lambda(\gamma_1,\gamma_2)$ and some first coefficients of the corresponding eigenfunctions are found. Using Haupt's theorem the "body of dynamical stability" obtained is divided into stable and unstable regions. It is shown that with a suitable choice of the parameters γ_i, the second resonance region does not appear. The tables of Klotter and Kotowski are completed.

The second part of the paper treats the problem of the stability of a bar of narrow rectangular cross-section loaded at the extremities with a moment $M(t)$ and an axial force $P(t)$, of the same angular frequency. Boundary conditions of simple support and other types are considered. K. Klotter's method is used in a modified form.

D. P. Rašković (Belgrade)

STASZEWSKI, Jozef; PISZCZEK, Maria [translator]

Sierakowski, Lelewel and the Portugaliae Monumenta Cartographica.
Przegl geogr 35 nr.1:77-81 '63.

PISZCZEK, Stanislaw; ...

Selected problems of industrial psychology. Wiad ...
no.7/8:177-181 Jl-Ag '61.

IOFFE, I. I.; PISMEN, L. M. [Pis'men, L. M.]

Calculation of the optimum operation of chemical reactors.
Magy kem lap 19 no. 2: 93-99 F '64.

1. Szerves Kozbenso Termekek es Szinezekek Tudomanyos Kutato
   Intezete, Moszkva.

BRADISTILOV, G.; BOYADZHIYEV, G. [Boiadzhiev, G.]; PISZKV, A.

Existence of periodic motions in the n mathematical pendulums connected successively with elastic bonds. Doklady BAK 16 no.1:7-10 '63.

1. Predstavlenc chl.-korr. L. Iliyovym [Iliev, L.].

PITA, Yu.D.

Replacement of decoder cells by means of a model. Avtom., telem. i
svias 9 no.9:32-33 S '65.   (MIRA 18:9)

1. Starshiy inzh. avtoblokirovki Dnepropetrovskoy distantsii
Pridneprovskoy dorogi.

IITADL, Anatolij A. K e[...]; YA[...], [...] A. K [...];
K[...]KI, A. k[...]in [...] [...].

[...] equipment and te[...]c[...]gy for e[...]ory [...]in[...] —
[...]ia te[...]ika i te[...]hno[...]gii [...]z[...] [...]hn[...]go buren[...]ia. [...]-
[...]va, [...]ira, [...]. [...].   ([...] [...]:[...])

BELEVTSEV, Ya.N.; FOMENKO, V.Yu.; NOTAROV, V.D.; MOLYAVKO, G.I.;
        MEL'NIK, Yu.P.; SIROSHTAN, R.I.; DOVGAN', M.N.; CHERNOVSKIY,
        M.I.; SHCHERBAKOVA, K.F.; ZAGORUYKO, L.G.; GOROSHNIKOV, B.I.;
        AKIMENKO, N.M.; SEMERGEYEVA, Ye.A.; KUCHER, V.N.; TAKHTUYEV, G.V.;
        KALYAYEV, G.I.; ZARUBA, V.M.; NAZAROV, P.P.; MAKSIMOVICH, V.L.;
        STRUYEVA, G.M.; KARSHENBAUM, A.P.; SKARZHINSKAYA, T.A.;
        CHEREDNICHENKO, A.I.; GERSHOYG, Yu.G.; PITADE, A.A.; RADUTSKAYA,
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        red.; LADIYEVA, V.D., red.; ZHUKOV, G.V., red.; YEPATKO, Yu.M.,
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NATAROV, V.D., doktor geol.-miner. nauk; PANASENKO, V.N.;
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Service of zircon nozzles in the ... of ... casting ... ... Ogneupory 28 no.4:... 3-... '63.

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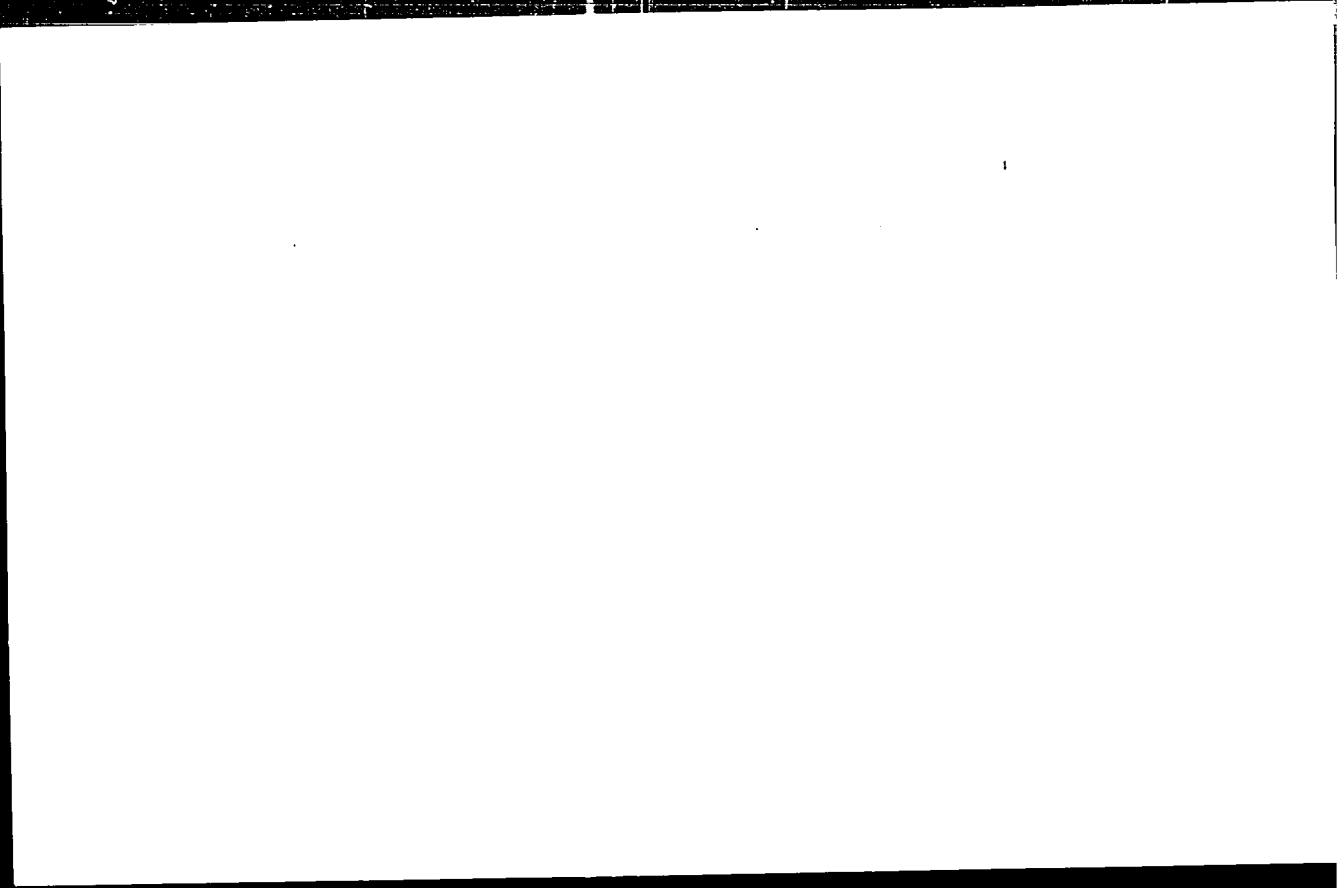
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UR/0081/65/000/007/M006/M006

ACCESSION NR: AR5014266

SOURCE: Ref. zh. Khimiya, Abs. 7M51

AUTHOR: Pitak, N.V.

TITLE: Zircon refractories in units for continuous steel casting

CITED SOURCE: Sb. nauchn. tr. Ukr. n.-i. in-t ogneuporov, vyp. 7(54), 1963, 270-281

TOPIC TAGS: steel casting, continuous casting, zircon refractory, zircon powder, iron free zircon, pressed zircon, batcher manufacture

TRANSLATION: The results of a study of the possible use of zircon refractories in units for continuous steel casting are presented. To prepare the refractories, use was made of deironed zircon powder with a 1-2% residue on a mesh of 4900 openings/cm². The powder was moistened to 4%, and briquets were pressed in the shape of a standard brick, fired at 1670C, and soaked for 6 hr. at this temperature. The fire shrinkage was 10%, and the apparent porosity after annealing was 0.3-3%. After being ground by milling, the material was passed through a magnetic separator. Laboratory experiments showed that in order to improve the compactability and increase the density of the green compact, a small amount of clay (5.0, 7.5, or 10%) should be added to the composition of the

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zircon mass. The firing temperature of the green compact is thus lowered by 100-150C, and its apparent porosity decreased. In the manufacture of batchers, a fraction of fired zircon can be replaced with an equivalent fraction of raw zircon or zircon con- centrate. It was shown that zircon vessels possess a high wear resistance in the casting of killed, rimmed, and stainless steels, and the wear in this case ranges from 0 to 4 mm of vessel diameter per hour of hot operation. Bibl. with 9 refs. V. Reznik

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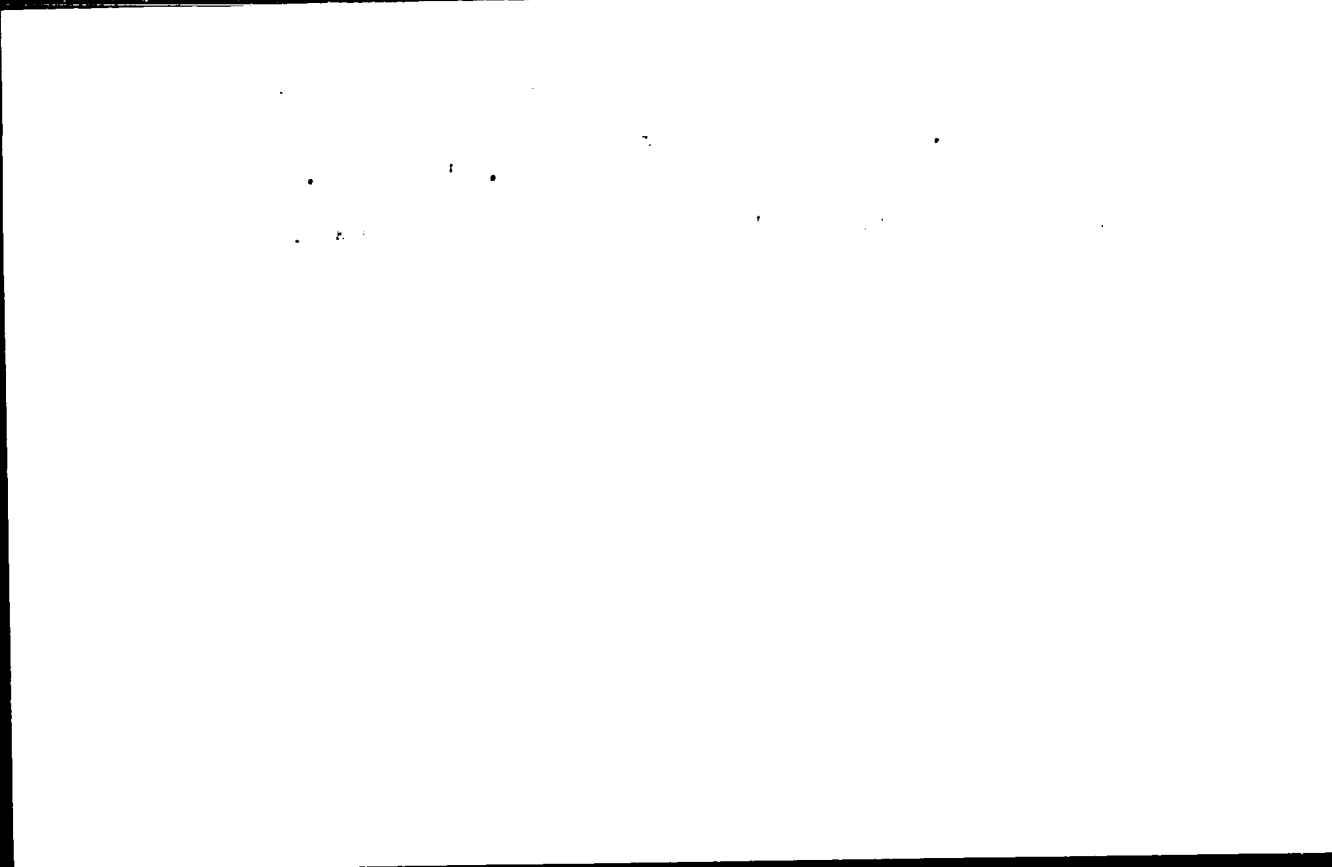
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PITAK N V

Kukolev, G. V., Professor, Doctor of Technical
Sciences, Pitak, N. V.

TITLE:
The Influence of Peptizers on the Efficiency of a Plodder in
Manufacturing Faience Materials and Kaolin-bentonite-suspensions
(Vliyaniye peptizatorov na proizvoditel'nost' lentochnogo pressa
pri pererabotke fayansovykh mass i kaolino-bentonitovykh suspenziy)

PERIODICAL:
Steklo i keramika, 1959, Nr 7, pp 7 - 11 (USSR)

ABSTRACT:
As it results from the investigations of L. A. Abduragimova,
P. A. Rebinder, N. N. Serb-Serbina and I. A. Uskov (Footnote 2)
the bentonite-olay types are very sensitive to the effect of
electrolytes. The authors of this paper investigate the influence
of the peptizers on the kaolin-bentonite-suspensions and faience
materials in their processing by means of a plodder. The chemical
composition of the clayey materials which were used for these
studies is given in table 1. The absorption capacity, the specific
surface and the amount of the bound water are taken from the
studies of F. D. Ovcharenko (Footnote 3). The compositions of the
faience materials are given in table 2. As peptizers soda and soda
extracts from peat and straw were used which were found in former
studies. The investigations were carried through on a laboratory

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