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Elekhman, L. I.
AN INVESTIGATION OF THE PROCESS OF VIBRA-
TIONAL DRIVING OF PILES AND SHEET PILES.
[1963] 12p.
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Trans. of Akad[emiya] Nauk SSSR. Inst[itut]
Mekh[aniki]. Inzh[enernyi] Sb[ornik] 1954, v. 19,
p. 55-64.

DESCRIPTORS: *Civil engineering, Construction, Vi-
bration, *Beams (Structural), Sheets, Metal plates,
Foundations (Structures)

(Engineering--Civil, TT, v. 10, no. 3)

I. Elekhman, L. I.
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Office of Technical Services

Calculation of the Creep of High-Pressure Turbine
Discs, by V. I. Rozenblyum.

RUSSIAN, per, Inzhenernyy Sbornik, Vol XX, 1954,
pp 49-54.

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An Investigation into Cavitation Erosion
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On the Stability of a Closed Two-Layered Conical
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pp 1-84. Encl to IR-1751-55. CIA D 343008.

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RUSSIAN, per, Inzhenernyy Sbornik, Vol XX,
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Bending of Circular and Ring-Shaped Plates of Varying or Uniform Thickness Beyond the Elastic Limit, by A. S. Grigoryev, 60 pp.

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Mathematico-Statistical Description of Surface
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Vol XXI, 1955, pp 79-96.

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28 pp.

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S. G. Gurevich, 10 pp.

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pp 48-52.

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Investigation of the Stability of Thin Envelopes
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pp 217-221.
*AEC SCI-T-66-252

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On Some Quadratures of Fundamental Beam
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Stepanov, R. D.
ON THE FLUTTER OF CYLINDRICAL PANELS
MOVING IN A GAS. [1962] [15]p. 3 refs.
Free copies available from Boeing Scientific Research
Labs. Library as Boeing Trans. R44. When supply is
exhausted, order from OTS or SLA \$1.60, 62-18855

Trans. of Akademiya Nauk SSSR. Institut Mekhaniki.
(Inzhenernyi Sbornik), 1959, v. 25, p. 92-100.

DESCRIPTORS: *Aerodynamic configurations, *Panels
(Structural), Cylindrical bodies, *Flutter, Supersonic
characteristics, Stability, Numerical analysis, Complex
numbers.

This paper gives an application of a method to the solu-
tion of the problem of the flutter of a circular cylindrical
shell of hollow section, moving in a gas with supersonic
velocity. It is assumed that the shell has hinged fasten-
ings at its longitudinal and transverse bounding edges
(Mechanics--Aerodynamics, TT, v. 9, no. 4) (over)

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One-Dimensional Problem of Temperature
Stresses in an Elastoplastic Medium, by
V. A. Lonakin, 3 pp.

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Golitsynskaya, E. D.
CERTAIN PROBLEMS OF STABILITY OF THIN
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Ustoiichivosti Tonkikh Tsilindricheskikh Obolochek).
[1961] [23]p. (foreign text included) 5 refs.
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[Rough draft] trans. of [Akademiya Nauk SSSR.
Institut Mekhaniki]. Inzhenernyi Sbornik, 1959, v. 25,
p. 145-153.

DESCRIPTORS: *Structural shells, *Cylindrical
bodies, Stability, Load distribution, Deflection,
Theory, Numerical methods and procedures, Partial
differential equations.

The investigation is based on the equations of the
linear theory of thin small-curvature shells. Con-
sideration is given to the stability equation, complex
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Investigation of Heat Exchange in
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BEHAVIOUR OF COMPLEX EIGENVALUES IN A PROBLEM OF PANEL FLUTTER. [1962] [11]p. 1 ref. Free copies available from Boeing Scientific Research Labs. Library as Boeing Trans. R49. When supply is exhausted, order from OTS or SLA \$1.60, 62-18856

Trans. of Akademiya Nauk SSSR, Institut Mekhaniki, Inzhenernyi Sbornik, 1960, v. 27, p. 70-76.

DESCRIPTORS: *Aerodynamic configurations, *Panels (Structural), *Flutter, Supersonic characteristics, Numerical analysis, *Complex numbers.

In the problem of the flutter of a thin, elastic, rectangular panel, moving in a gas with great supersonic velocity, results of additional calculations are given for the region of high velocities, in which the eigenvalues of the corresponding non-self-conjugate boundary value (Mechanics--Aerodynamics, TT, v. 9, no. 4) (over)

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- I. Movchan, A. A.
- II. Boeing Trans-R49
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TT-63-23478

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ON AN ANALYTICAL REPRESENTATION OF THE
THERMODYNAMIC FUNCTIONS OF DISSOCIATING
AIR (Ob Analiticheskom Predstavlenii Termodinami-
cheskikh Funktsii Dissotsiruyushchevo Vozdukha) tr.
by John W. Brook. May 62 [17]p 2refs Grumman Re-
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Order from OTS, SLA, or ETC \$1.60 TT-63-23478

- I. Mikhailov, V. V.
- II. GWT-TR-21
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Bethpage, N. Y.
- IV. AD-275 816

Trans. of [Akademiya Nauk SSSR, Institut Mekhaniki].
Inzhenernyi Sbornik, 1960, v. 28 [p. 36-43]. (Abstract
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DESCRIPTORS: *Thermodynamics, *Dissociation, *Air,
Chemical reactions, Excitation, Temperature, Energy,
Functions, Gases, Partial differential equations,
Molecules, Enthalpy, Entropy, Specific heat, Gas
ionization, Gas flow,

(Physics--Thermodynamics, TT, v. 11, no. 2) (over)

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17 Jul 68 SF

Effect of radioactive irradiation on the mechanical
properties of solid bodies by V.S.Lenskiy,

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Effect of Radioactive Irradiation on the
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pp 97-123.
JPRS 46209

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Sep 68

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On the Strength of Thick-Walled Cylindrical and
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A. A. Il'yushin, P. M. Ogibalov, 15 pp.
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AEC/SCL-Tr-252-69

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ACSI 1-6837
ID 2204011765

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Trans. of mono. [Inzhenennaya Teoriya Plastichnosti;
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1959, 327p.].

DESCRIPTORS: *Plasticity, Theory, Engineering.

(Mechanics, TT, v. 9, no. 1)

I. Unksov, E. P.
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Bolotin, V. V.
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[1963] 37p. 19 refs.
Free copies available from Boeing Scientific Research
Labs. Library as Boeing Trans. R45. When supply
is exhausted, order from OTS or SLA \$3.60. 63-16632

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Research Labs.,
Seattle, Wash.

Trans. of Akademiya Nauk SSSR. Institut Mekhaniki.
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DESCRIPTORS: *Flutter, Sheets, *Elastic shells,
Stability, Supersonic flow, Gas flow, *Aeroelasticity,
Fluid dynamics properties, Numerical analysis,
Aerodynamics, Panels (Structural), Structural shells,
Aerodynamic heating.

The study is devoted to an investigation of nonlinear
flutter of plane and curvilinear panels, about which
there is a flow with great supersonic velocities. It is
(Mechanics--Aerodynamics, TT, v. 10, no. 5) (over)

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AEC SCL-T-392

Sci - Engr, Phys
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On the Strength of Thick-Walled Cylindrical
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Zhigulev, V. N., Romishevskii, E. A.,
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ON THE ROLE OF RADIATION IN MODERN PROBLEMS IN GAS DYNAMICS (O Roli Izlucheniya v Sovremennykh Voprosakh Gazovoi Dinamiki). [1962]
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Trans. of Inzhenernyi Zhurnal (USSR) 1961, v. 1, no. 1, p. 60-83.

DESCRIPTORS: *Aerodynamics, Fluid dynamics, *Gas flow, Temperature, Thermal radiation, Black-body radiation, *Radiation effects, Hypersonic flow, *Aerodynamic configurations, Aerodynamic heating, Recombination reactions, Equations of motion, Integral equations, Differential equations.

(Mechanics--Aerodynamics, TT, v. 9, no. 9)

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Concerning the Calculation of the Molecular Com-
position of Air For a Determination of the
Coefficient of Aerodynamic Forces and the
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at High Supersonic Speeds, by V. S. Galkin, 4 (1962)

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On the Stability of Stationary Motions of Single-Rotor
Gyroscopic Devices, by A. P. Drvakin, 13 pp.

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On the Dynamic Stability of Shallow Elastic Shells, by
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TT-64-13333

Keldysh, V. V.
EXACT SOLUTIONS FOR WINGS HAVING ONE AND
TWO PLANE SHOCK WAVES (Tochnye Resheniya dlya
Neusushchikh Sistem s Odnim i Dvumya Ploskimi
Skachkami Uplotneniya) J. W. Palmer, tr. Sep 63
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Order from OTS, SLA, or ETC \$2.60 TT-64-13333

Trans. of Inzhenernyi Zhurnal (USSR) 1961, v. 1, no. 3,
p. 22-39.
Abstract trans. is available from OTS or SLA \$1.10 as
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I. Keldysh, V. V.
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ment, Farnborough
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Concerning an Almost Free-Molecular Flow of
Rarefied Gas Past \mathbb{E} Bodies, by R. S.
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Real Gas, by V. I. Bakulev. 17 pp.
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Investigation of a Flow in a Discharge
Arrangement, by V. N. Gusev, 9 pp.

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Sci - Chem
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On the Question of the Estimation of the Walking
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by V. V. Krementulo, L. M. Markhashov, 4 pp.

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Sci-Phys

Aug 63

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On Waves-Starting of Supersonic Diffuser, by A. I.
Lashkov, A. A. Nikolsky.

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*FTD MT-63-32
Machine translation

13 Aug 62

Handwritten: Navy 3497/APL 791

Heat Exchange in Turbulent Boundary Layer of
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