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(Info from OOC memo)

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by Yakov Anan'yevich Yegolinskiy, 45 pp.  
RUSSIAN, bklet, Fizicheskaya Vynoslivost'  
Cheloveka i Puti Yeye Razvitiya, 1966, pp. 3-31,  
72-79, 112-116.  
JPRS 41444

USSR  
Sci-B&M  
Aug 67

333,309

63-15047

Silin, V. P. and Gorbunov, L. M.  
ON THE KINETICS OF NON-ISOTHERMAL PLASMA  
[AND] ADDITION TO THE ARTICLE, tr. by  
Sergey Shevchuk, June 62, 10p. 2 refs.  
Order from CTS or SLA \$1.10      UCRL Trans-833 (1)

- I. Silin, V. P.
- II. Gorbunov, L. M.
- III. UCRL Trans-833 (1)
- IV. Lawrence Radiation Lab.,  
U. of California,  
Berkeley

Trans. of Akademiya Nauk SSSR. Fizicheskii Institut.  
Rept-A-611, 1962, 9p.

DESCRIPTION: \*Plasma physics, \*Kinetic theory,  
Polarization, Electrons, Distribution, Statistical func-  
tions, Potentials, Integrals, Plasma oscillations.

(Physics - Electronics) TI, v. 9, no. 6)

Office of Technical Services

63-15054

Silin, V. P.  
THEORY OF TRANSFER PROCESSES IN A PLASMA  
ACROSS A MAGNETIC FIELD, tr. by Sergey  
Shewchuck. Sep 62 12p. 4 refs.  
Order from OTS or SLA \$1.60      UCRL Trans-869 (L)

Trans. of Akademiya Nauk SSSR, Fizicheskii Institut,  
Rept- A-83, 1962.

DESCRIPTORS: \*Plasma physics, Magnetic fields,  
Particles, Electrons, Ions, Oscillation, Theory.

A theory is described for the transfer phenomena in a  
plasma across a constant magnetic field. An important  
new moment is the calculation of the interaction of  
plasma particles with longitudinal oscillation. It is  
shown that with fairly large ratios of the electron and  
ion temperatures, the effect of the particle interaction  
with the plasma oscillations leads to a substantial  
(Physics--Electronics, TT, v. 9, no. 7)      (over)

- I. Silin, V. P.
- II. UCRL-Trans-869 (L)
- III. Lawrence Radiation Lab.  
U. of California,  
Berkeley

Office of Technical Services



63-10849

Ramazashvili, R. R., Rukhadze, A. A., and Silin, V. P.

ON THE RATE OF LEVELING OF TEMPERATURE OF CHARGES PARTICLES IN A PLASMA. 7 Feb 63, 17p. 11 refs.

Free copies available from Boeing Scientific Research Labs. Library as Boeing Trans. R47. When supply exhausted, order from OTS or SLA \$1.60; 63-10849

Trans. of Akademiya Nauk SSSR, Fizicheskii Institut. [Rept]-A-82, 1962 [Zhurnal Eksperimental'noi i Teoreticheskoi Fiziki (USSR) 1962, v. 43, no. 4, p. 1323-1330].

DESCRIPTORS: \*Temperature, Relaxation time, \*Charged particles, \*Plasma physics.

The paper examines problems of temperature relaxation, both in a gas of charged particles of one type, (Physics--Electronics, TT, v. 10, no. 1) (over)

- I. Ramazashvili, R. R.
- II. Rukhadze, A. A.
- III. Silin, V. P.
- IV. Boeing Trans-R47
- V. Boeing Scientific Research Labs., Seattle, Wash.

Office of Technical Services

63-10654

Silin, V. P.  
OSCILLATIONS OF A WEAKLY INHOMOGENEOUS  
PLASMA. [1962] 26p. 4 refs.  
Free copies available from Boeing Scientific Research  
Labs. Library as Boeing Trans. R60. When supply is  
exhausted, order from OTS or SLA \$2.60, 63-10654

I. Silin, V. P.  
II. Boeing Trans-R60  
III. Boeing Scientific Research  
Labs., Seattle, Wash.

Trans. of Akademiya Nauk SSSR. Fizicheskii Institut.  
[Rept]-A-210, 1962, p. 1-23.

DESCRIPTORS: \*Plasma physics, \*Plasma oscillations,  
Oscillation, Electrons, Frequency, Stability, Elec-  
tromagnetic waves, Magnetic fields, Quantum statistics

The natural oscillations of a weakly inhomogeneous  
plasma are studied. The dispersion equations defining  
the natural frequencies of these oscillations are anal-  
ogous to the quasi-classical quantization rules of Bohr.  
The high-frequency electron oscillations of a weakly  
(Physics--Electronics, TT, v. 9, no. 5) (over)

Office of Technical Services

63-10655

Lovetskii, E. E. and Rukhadze, A. A.  
ON THE CONVECTIVE INSTABILITY OF AN INHOMOGENEOUS PLASMA IN A GRAVITY FIELD. [1962]  
15p. 6 refs.

Free copies available from Boeing Scientific Research  
Labs. Library as Boeing Trans. R61. When supply is  
exhausted, order from OTS or SLA \$1.60, 63-10655

Trans. of Akademiya Nauk SSSR. Fizicheskii Institut.  
[Rept]-A-109, 1962, p. 1-13.

DESCRIPTORS: \*Plasma physics, \*Plasma oscillations,  
Stability, \*Gravity, Magnetic fields, Electromagnetic  
waves, Electrons, Magnetohydrodynamics, Quantum  
statistics, Tensor analysis, Dielectric properties,  
Permeability.

The stability is investigated of the equilibrium state of  
a weakly inhomogeneous rarified magnetoactive plasma  
(Physics--Electronics, TT, v. 9, no. 6) (over)

- I. Lovetskii, E. E.
- II. Rukhadze, A. A.
- III. Boeing Trans-R61
- IV. Boeing Scientific Research  
Labs., Seattle, Wash.

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