

FLOWING A DIRECT MICROCURRENT
IN THERMAL PLASMAS

V.I. Vishnyakov

Mechnikov Odessa National University
(2, Dvoryanskaya Str., Odessa 65082, Ukraine;
e-mail: pipeaes@te.net.ua)

S u m m a r y

The flowing of small microcurrents in a thermal complex plasma which exist under the interaction of dust grains or in the probe's measurements has been considered. A change of the ionization degree of the plasma and the formation of nonequilibrium charge carriers during the flowing of a direct microcurrent have been demonstrated. The functional connection between the voltage drops on the plasma layer and on the plasma–dust grain or plasma–probe contact has been established.