

DUSTY AND SMOKY PLASMAS.
SOME PROPERTIES AND APPLICATIONS

G.S. Dragan

I.I. Mechnikov Odesa National University
(2, Dvoryans'ka Str., Odesa 65026, Ukraine;
e-mail: *dragan@fromru.com*)

S u m m a r y

Methods of application of low-temperature plasma with a condensed disperse phase, which dusty and smoky plasmas belong to, have been classified. Some properties of smoky plasma connected to the conditions of its production and resulted from its content, namely, a displacement of ionization equilibrium, long-range interaction, spatial nonhomogeneity of ionization equilibrium in the vicinity of charged smoke particles, electro-acoustical oscillations, and nucleation, have been discussed. An analysis of common and distinctive properties of dusty and smoky plasmas has been carried out.