

## IONIZATION EQUILIBRIUM IN A THERMAL PLASMA—SOLID CONTACT

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### S u m m a r y

Dependence of the ionization degree of a thermal smoky plasma on properties of a solid contacting with the plasma is studied. The interphase exchange by electrons in a direct way and as a result of the ionization of atoms and the recombination of ions on the solid surface is researched. The parameter describing the ionization nonequilibrium of the plasma in the cases of its contact with a metal surface or a semiconductor surface in the presence or absence of the surface states on the interface is derived. The possibility to apply the obtained results to the interpretation of voltage-current characteristics measured upon a probing is considered.