

Konopka, P.; Schröter, J.

Correlational thermodynamics of plasmas. II: Electric conductivity. (English) Zbl 0782.76105
J. Non-Equilibrium Thermodyn. 17, No. 4, 343-381 (1992).

[For part I, see the foregoing entry.]

Plasma *dc*- and *ac*-conductivities are derived from a modified correlational hydrodynamics. The applied treatment takes into account both the retardation of the electromagnetic interaction and the interparticle correlations. The obtained theoretical results are compared with the experimental data.

Reviewer: V.Čadež (Beograd)

MSC:

76X05 Ionized gas flow in electromagnetic fields; plasmic flow
76P05 Rarefied gas flows, Boltzmann equation in fluid mechanics
82B40 Kinetic theory of gases in equilibrium statistical mechanics
82B30 Statistical thermodynamics

Cited in 1 Document

Keywords:

correlational hydrodynamics; interparticle correlations

Full Text: [DOI](#)

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