

**Konopka, P.; Schröter, J.**

**Correlational thermodynamics of plasmas. I: Kinetic background and equilibrium properties.** (English) [Zbl 0782.76104](#)

*J. Non-Equilibrium Thermodyn.* 17, No. 3, 245-280 (1992).

A modified kinetic equation which includes two particle correlation was derived and the equilibrium solutions are obtained. The treatment is applied and discussed in a case of a two species plasma.

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**MSC:**

- [76X05](#) Ionized gas flow in electromagnetic fields; plasmic flow
- [76P05](#) Rarefied gas flows, Boltzmann equation in fluid mechanics
- [82B30](#) Statistical thermodynamics
- [82B10](#) Quantum equilibrium statistical mechanics (general)

Cited in **2** Documents

**Keywords:**

[modified kinetic equation](#); [particle correlations](#)

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