

**Lions, Pierre-Louis**

**On kinetic equations.** (English) [Zbl 0806.35143](#)

Proc. Int. Congr. Math., Kyoto/Japan 1990, Vol. II, 1173-1185 (1991).

From the introduction: We review some recent progress on various kinetic equations which include the well-known Boltzmann equation and also Vlasov models like Vlasov-Poisson or Vlasov Maxwell systems.

For the entire collection see [\[Zbl 0741.00020\]](#).

**MSC:**

[35Q35](#) PDEs in connection with fluid mechanics

[76P05](#) Rarefied gas flows, Boltzmann equation in fluid mechanics

[82C22](#) Interacting particle systems in time-dependent statistical mechanics

[35Q60](#) PDEs in connection with optics and electromagnetic theory

Cited in **9** Documents

**Keywords:**

Vlasov-Poisson-Boltzmann equation; evolution of a large number of particles; Boltzmann equation; Vlasov models; Vlasov Maxwell systems