

Di Felice, R.

A relationship for the wall effect on the settling velocity of a sphere at any flow regime.

(English) [Zbl 1135.76401](#)

Int. J. Multiphase Flow 22, No. 3, 527-533 (1996).

Summary: By using a fluid dynamic analogy between a single particle in a tube and a multiparticle suspension previously derived, a relationship for the wall effect on the terminal settling velocity of a single particle in a cylindrical tube is obtained. Unlike previous relationships, this one is valid for any flow regime, from viscous to fully inertial, and it is in good agreement with experimental evidence.

MSC:

[76Txx](#) Multiphase and multicomponent flows

Cited in **3** Documents

Keywords:

terminal settling velocity; wall effect; viscous flow; inertial flow

Full Text: [DOI](#)