Wire-Duct Electrostatic Precipitator Efficiency (Effect of Geometrical Parameters)

A. A. Ibrahim S. Abdel-Sattar

Abstract:

The authors present an analysis of the performance of a wire-duct electrostatic precipitator influenced by different geometrical parameters. The precipitation efficiency is determined for both the cement and steel industries considering different inlet dust weight values. The effect of both the applied voltage and the gas flow speed on the precipitation efficiency is also studied. The present findings are correlated to the physics of corona discharge.

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