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## UTILIZATION OF COAL FLY ASH FROM POWER PLANTS I. ASH CHARACTERIZATION

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### Abstract

A comprehensive characterization of fly ash from Iasi, Romania has been carried out in order to set up the utilization potential of fly ash resulting in appreciable amounts from thermal power plants as a waste, which leads to soil and groundwater contamination, as well as atmospheric pollution. This fly ash can be classified on the base chemical and technological properties in F class. Having in mind the assignment of the processing conditions, the fly ash can be used as sorbent for polluting gas (with sulfur dioxide especially), for industrial wastewaters with a high content of Ni, Cu, Cd, Zn, Hg, As, Cr ions, to obtain new building materials, having a reduced specific weight and reduced costs.

*Key words:* coal ash, waste, environment, capitalization, size distribution

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