

HEAVY METALS REMOVAL FROM MULTICOMPONENTS CATION SOLUTION USING ALKALINE ACTIVATED FLY ASH

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Abstract: *The study aims to optimize the heavy metals immobilization on fly ash, as a low cost adsorbent. The fly ash is collected directly from the filter of CPH-CET Brașov. Batch experiments were conducted at room temperature to evaluate the removal, by adsorption, of Cd²⁺, Cu²⁺ and Ni²⁺ from multi-cations solution. The surface of fly ash was modify by alkaline treatment with NaOH 2N solutions. The adsorption data were described using the Langmuir and Freundlich models.*

Key words: *Fly ash, heavy metals removal, adsorption isotherm.*

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