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ASPECTS REGARDING THE WASTEWATER TREATMENT BY ELECTROFLOTOCOAGULATION

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Abstract

Electroflotocoagulation is an electrochemical technique, in which a variety of organic and suspended solids can be effectively removed from an aqueous solution by electrolysis. The present paper presents the results obtained by investigation of the electroflotocoagulation technique on simulated wastewater that proceeded from paper and cellulose industry, resulting aluminium anode and stainless steel cathode. The good results were obtained for the removal of organic load and suspended solids at different ratios between the concentrations of Cl^- and SO_4^{2-} anions at low current densities that involve low specific energy consumption, this technique being appropriate to a practical application.

Keywords: wastewater treatment, electroflotocoagulation, COD removal, suspended solids

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