

Rehabilitation of Raw Materials for Cement and Building Materials Industry

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Adsorption is a process for removal of pollutants from aqueous phase by traditional adsorbents like activated carbon, activated sludge and many other solid adsorbents. However after removal of pollutants from the wastewater the solid waste disposal become a continuous problem. In order to avoid this raw materials normally used for cement making and other building materials industry can be used for selective adsorption of pollutants such as trace metals like iron, magnesium, aluminium, copper, zinc, nickel. Adsorption by solids takes place by interactions and accumulation of solutes at solid surfaces as well as by Mass transfer operation such as interfacial and intraparticle diffusion of dissolved solutes. These trace elements may enhance the specific properties of the product when applied suitably. This article deals with adsorption kinetics, system design industrial application and rehabilitation methodology.

Agreement

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