



Agro-based Adsorbents for Chromium Removal

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The book provides extensive technical information about performance of agro-based adsorbents for the treatment of metal plating wastewater, hexavalent chromium toxicity, various industrial wastewater treatment methods, adsorption and its classification, evaluation of agriculture waste performance in the removal of hexavalent chromium bearing wastewater by adsorption. Using low cost alternative adsorbent is a demanding area in the wastewater treatment technology. Further, activated carbon from biomass has the advantage of offering an effected low cost replacement for non – renewable coal based granular activated carbon provided that they have similar or better adsorption efficiency. The effectiveness of various adsorbents under different physico-chemical process parameters and their comparative adsorption capacity towards hexavalent chromium adsorption has also been presented. The book also includes the effective adsorption factors of hexavalent chromium such as pH, initial concentration effect, adsorbent doses, adsorbent sizes and temperature. The applicability of various adsorption kinetic models and isotherm models for Cr(VI) removal by wide range of adsorbents is also reported.

ISBN: 9789386071200

Binding: Hardback

Price: ₹ 995.00/-

Publication Year: 2017

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