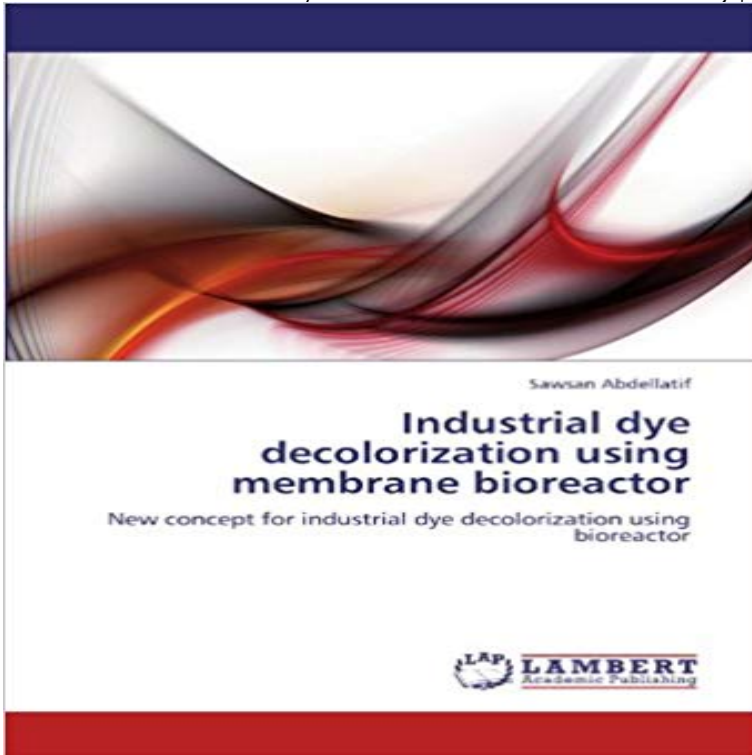


Industrial dye decolorization using membrane bioreactor: New concept for industrial dye decolorization using bioreactor



Industrial dye decolorization using membrane bioreactor Dyes constitute an essential part of our civilization, but they cause environmental pollution from the effluents of dyestuff industries. Dyes are usually aromatic and heterocyclic compounds and are often recalcitrant, some of them being toxic and even carcinogenic. It is therefore important to develop methods for the decolorization and degradation of dyes in industrial effluents. fungi play a key roll in degradation and detoxification of dyes through production of lignine modifying enzymes. Through high production of these enzymes and with creating methods for loading these enzymes on a safety carrier we can apply it directly to the polluted environments for overcome its badly effects. New concept for industrial dye decolorization using bioreactor is used as an idea for production of such enzymes. The same unique nonspecific mechanisms that give these fungi the ability to degrade lignin also allow them to degrade a wide range of pollutants. They are able to degrade polycyclic aromatic hydrocarbons (PAHs), chlorinated phenols, polychlorinated biphenyls, dioxins, pesticides and explosives.

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