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## Adsorption Design Guide (Paperback)

By US Army Corps of Engineers

University Press of the Pacific, United States, 2005. Paperback. Condition: New. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.This book provides practical guidance for the design of liquid and vapor phase devices for the adsorption of organic chemicals. The adsorptive media addressed include granular activated carbon (GAC) and other alternative adsorption carbon media, such as powdered activated carbon (PAC) and non-carbon adsorbents. Adsorption Design Guide addresses various adsorption media types, applicability, use of various adsorption process technologies, equipment and ancillary component design, availability, advantages, disadvantages, regeneration methods, costs, and safety considerations. The equipment can be installed alone or as part of an overall treatment train, based on site-specific factors. Carbon, in various forms, has been used to adsorb contaminants for some time. The first documented use of carbon as an adsorbent was for medical purposes, in the form of wood char in 1550 B.C. The first documented use for water treatment was in 200 B.C. to remove disagreeable tastes. In 1785 experimental chemists learned that carbon could accumulate unwanted contaminants from water. Carbon in the activated form was first used as a filter medium in the late 1800s. The understanding of carbon adsorption progressed in the late...



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