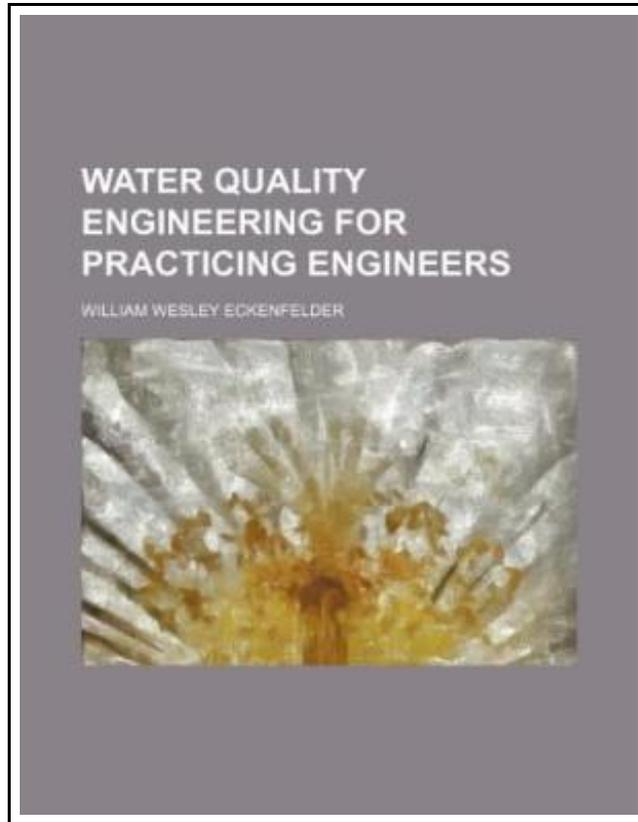


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Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1873 Excerpt: .in Table 9.1. SLUDGE SETTLING Sludge settling and compaction characteristics are a primary requisite to successful operation of the activated sludge process. With a poor settling sludge, solids carryover in the effluent will contribute to the BOD (due to endogenous respiration of the activated sludge solids in the BOD bottle). The poor compaction will result in a low concentration of return sludge solids, which in turn will limit the mixed-liquor suspendedsolids level. A poor settling or bulking sludge can be the result of the propagation of filamentous organisms (i.e. Sphaerotilus) or from diffuse bacterial growth. Many filamentous growths are obligatory aerobes which flourish in the presence of an available carbon source such as glucose. At low concentrations of dissolved oxygen in the mixed liquor (0.5 mg/1) there is little oxygen penetration into the biological floc and only a small fraction of the bacterial mass will exhibit aerobic growth 5,77. The filaments, on the other hand, have a very high surface area/volume ratio and will quickly outgrow the bacterial population 72. High oxygen tension will favor the growth of floc-forming bacteria. When the carbon source is exhausted, the filaments will tend to disappear from the system. Many filamentous organisms are aerobic and can be destroyed by prolonged periods of anaerobiasis. Most of the bacteria, on the other hand, are facultative and can exist for extended periods without oxygen. Although available data are somewhat contradictory, it would appear that at least 6 hr under anaerobic conditions are...



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