Enhanced N-Removal Rate - A Process Oriented Modeling Approach

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A rapid emerging anammox system for wastewater treatment plant is basically focusing on the highest nutrient removal rate. This is associated with long processing time in terms of getting a stable operation of anammox system. Achieving a stable operation is both challenging as well as time consuming task. To overcome this problem, current study modeled a process oriented approach for achieving the desired nitrogen removal efficiency. For ensuring accuracy, another SBR acted model was incorporated into the process oriented model (POM). In comparison with the existing anammox system, a stable operation with an average removal rate of about 80% was achieved over 300 days.
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