

Biological Wastewater Treatment Principles Modeling And Design

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For biological wastewater treatment in particular, liquid-gas transfer models have been coupled to biological conversion models to find strategies that minimize the aeration energy requirements ...

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Over the past twenty years, the knowledge and understanding of wastewater treatment has advanced extensively and moved away from empirically-based approaches to a fundamentally-based ' first principles ' approach embracing chemistry, microbiology, physical and bioprocess engineering, and mathematics. Many of these advances have matured to the degree that they have been codified into mathematical models for simulation by computers.

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