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A model to determine oxygen mass transfer coefficient in bioreactors
Johnny Lee



Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | The objective of this paper is to present an experimentally validated mechanistic model to predict the oxygen transfer rate coefficient (K_{La}) in aeration tanks for different water temperatures. Using experimental data created by Hunter and Vogelaar, the formula precisely reproduces experimental results for the standardized K_{La} at 20 °C, comparatively better than the current model used by ASCE 2-06 based on the equation $K_{La20} = K_{La} \cdot (20 - T)^n$ where T is in...

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