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Sludge disintegration

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**Highlights**

- We proposed a new model for membrane bioreactor using the sludge disintegration unit.
- In formulating such a model we arrive at a surprising result, namely that the Yoon's model has limited applicability.
- Equilibria and stability of the model are derived in general conditions.
- In such circumstance, the infinite rate model is valid for practical purpose.

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