

Stochastic Modeling Application For Gases Exchanges

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In this communication a stochastic modeling approach is applied to model for the exchange of gases from open sewer channel to the atmosphere. The data for the exchange of gases of the open sewer channel for the year January 1979 to December 2003 is utilized for the construction of the model. The study reveals that stream flow of the open sewer channel exchanges the toxic gases continuously with time varying scale. We find that the stochastic modeling approach is more parsimonious model for these exchanges. The usual diagnostic tests are applied for the model adequacy.

This is a joint work with Asif Mansoor, and Prof. Nasiruddin Khan.