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Publications - Environmental Fluid Dynamics Lab

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International Journal of Fluid Dynamics, Volume 8, pp 1-8; doi:10.12677/ijfd.2020.81001

Journal | International Journal of Fluid Dynamics

Computational Fluid Dynamics (CFD) simulations are conducted using the k-ε SST turbulence model in ANSYS Fluent. The authors have taken into consideration several parameters such as the size of the mouth opening, the velocity of the cabin air as well as the number of droplets being exhaled by the index patient to ensure a realistic simulation.

Journal | Open Journal of Fluid Dynamics

Abstract The interaction between fluid dynamics and microbiological organisms is an integral aspect of aquatic ecosystems that has received only sporadic attention over the years. The effects of fluid motion on bacterial growth kinetics and on the traditional biochemical oxygen demand (BOD) test were investigated.

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