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## Numerical investigation of gas- solid separation by liquid layer in horizontal pipes

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Gas- solid separation is studied considering a liquid layer in the lower part of a horizontal pipe. The particles falling in liquid layer could not go back in gas flow. The presence of solid particles on stratified wavy gas- liquid flows has been studied. In the present paper, the numerical four- way simulation of solid particles in gas- liquid wavy stratified flow has been used. The computational model is shown to be able to evaluate the effect of the liquid layer on particle separation.

## **Biography**

Zohreh Mansoori completed her PhD in Mechanical Engineering from Amirkabir University of Technology (Polytechnic), Tehran, Iran. She is Associate Professor and the Head of Energy Research Center in Amirkabir University of Technology. She has published more than 35 papers in reputed journals and has been serving as an Editorial Board Member of repute.

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