

عنوان مقاله:

Simulation of turbulent solid-laden gas flow

محل انتشار:

بیست و دومین کنفرانس سالانه بین‌المللی مهندسی مکانیک (سال: 1393)

تعداد صفحات اصل مقاله: 10

نویسندگان:

M Mahdavianesh - Lecturer, Mechanical Engineering Department, Shahid Chamran University of Ahvaz

A.R Noghrehabadi - Associated Professor, Mechanical Engineering Department, Shahid Chamran University of Ahvaz

M Behbahaninejad - Associated Professor, Mechanical Engineering Department, Shahid Chamran University of Ahvaz

G Ahmadi - Distinguished Professor, Mechanical and Aeronautical Engineering, Clarkson University

خلاصه مقاله:

The study of micro and nano particle-laden multiphase flow has received much attention due to its occurrence in a wide range of industrial and natural phenomena. Many of these flows are multi-dimensional systems involving strong mass, momentum and energy transfer between carrying fluid and particulate phase. This study presents a computational model for Lagrangian simulation of particle transport, dispersion and deposition. The instantaneous fluctuating velocities are simulated using a Langevin model. Finite volume method is used to tackle the steady state .conservation of mass, momentum and k-ε equations

کلمات کلیدی:

Turbulent gas-particle flow

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/277973>

