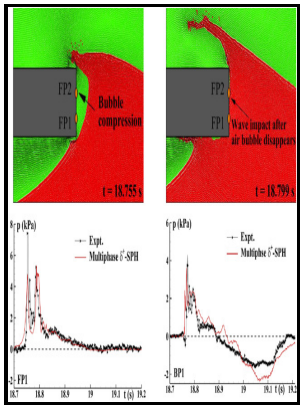
Interaction between turbulent flow and undular permeable boundaries

Dept. of Civil Engineering, Massachusetts Institute of Technology - Turbulent flow over an array of boulders placed on a rough, permeable bed



Description: -
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Turbulence.
Hydraulics.Interaction between turbulent flow and undular permeable boundaries
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Recherches et travaux (Universite Stendhal-Grenoble 3. U.F.R. de lettres)
Recherches & travaux
Report (Ralph M. Parsons Laboratory for Water Resources and Hydrodynamics) -- no. 180.
Ralph M. Parsons Laboratory for Water Resources and Hydrodynamics. Report -- no. 180.Interaction between turbulent flow and undular permeable boundaries
Notes: Bibliography: p. 167-169.
This edition was published in 1974

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Tags: #Nonlinear #characteristics #of #the #interaction #of #a #turbulent #boundary #layer #with #a #wavy #surface

On Boundary Layer Separation in the Lee of Mesoscale Topography in: Journal of the Atmospheric Sciences Volume 64 Issue 2 (2007)

In rivers and large ocean currents, the diffusion coefficient is given by variations of Elder's formula. Thus the global simulations are of cylindrical discs e.

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In view of their importance and persistence, we here give a brief discussion of their interpretation as being defined by a characteristic ray emanating from the protoplanet that separates the flow shearing past it into parts causally connected and not causally connected by waves.

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The pattern of behaviour that we have found from our simulations is the same for both local and global simulations which show excellent agreement in the results obtained for the local interaction between protoplanet and turbulent disc , and it agrees with the notion described above. The noisy full curve contains contributions from both the magnetic and Reynolds stresses while the dotted curve gives the magnetic contribution. The surface heat flux is zero and the surface roughness is 0.

Large eddy simulation of turbulent flow over and through a rough permeable bed

However, after about four orbits at the centre of the box, the running time average is within a factor of 2 of its final value of 0.

ShieldSquare

Applying this proposition at the simulated cases resulted penetration thickness values shown in Table 4. Simulation Conditions The characteristic

parameters of the boundary layer for all simulation cases are summarized in Table.

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