عنوان مقاله:

Determination of sea water intake height caused by transient waves using CFD model

محل انتشار:

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خلاصه مقاله:

Computational Fluid Dynamics is a mathematical tool, used to simulate fluid flow problems. The simulation results, are then used to consider kinematic and thermodynamics of flow particles within a specified geometry using Euler and Navier-Stoks solvers to simulate the most complex geometries in two and three dimensions. Sea water intake is one of complex geometry. In order to understand flow behavior incorporating control volume definition, it is essential to study all the forces (both internal and external).The transient analysis of the seawater intake in case of a power failure of Seawater pumps has been performed in this model. In this study, we have used Finite Volume Method to solve Navier-Stokes equations along with standard K-ε turbulent equations as well as Volume of Fluid (VOF) equations .which are governing the free surface fluid motion

کلمات کلیدی:

Transient, CFD, Sea water, intake