عنوان مقاله:

NUMERICAL MODELING OF WAVES ATTENUATION BY USING AIR BUBBLES AND STUDY OF THE BUBBLES
EFFECTS ON WAVES DESCRIPTION WITH DIFFERENT WAVELENGTHS

محل انتشار:

دوازدهمین همایش بین المللی سواحل، بنادر و سازه های دریایی (سال: 1395)

تعداد صفحات اصل مقاله: 2

نویسندگان:

Mojtaba Shegeft - *MS, Department of Marine Science and Technology, Science and Research Branch, Islamic Azad University, Tehran, Iran*

Madjid Ghodsi Hasanabad - *Assistant professor, Department of Marine Science and Technology Science and Research Branch, Islamic Azad University, Tehran, Iran*

Mojtaba Ezam - *Assistant professor, Department of Marine Science and Technology Science and Research Branch, Islamic Azad University, Tehran, Iran*

خلاصه مقاله:

In this paper, air bubble breakwater was investigated by 2D modeling. Finite volume method and Ansys Fluent software were used to analyze air bubble breakwater. With regard to the advantages of the breakwater and its good compatibility with environment and its high performance, further study in this field is necessary. The problem is Laboratory works in this field are expensive. Besides, the experimental results and the numerical results of this research were in good accordance. Therefore, it can be concluded that the present numerical method is convenient for air bubble breakwater modeling. In this model the Stokes fifth order equations, the continuity and momentum equations were selected as the governing equations. Also, the interaction between water and air was analyzed with the VOF method.

کلمات کلیدی:

لینک ثابت مقاله در پایگاه سیویلیکا:

https://civilica.com/doc/814890