Random wave and wave force analysis integration software for energy and ocean environmental laboratory, department of ocean engineering, FTK - ITS

Student Name : Arief Nur Yuliarto
NRP : 4309 100 012
Department : Ocean Engineering, Faculty of Marine Technology, ITS
Supervisors : Haryo Dwito Armono, S.T., M.Eng., Ph.D.
Sujantoko, ST. MT.

Abstract

Planning is a process that is extremely important in design, construction. The construction of both on land and at sea. The energy, the environment, and the sea the marine engineering, ftk-its often used for planning the construction of the sea. But this isn't have the software laboratory integrated for and analyzed data processing of user testing. Soft ware in the physical structure, of a model has a very crucial role, because of the importance of the output data will determine further steps to build a structure. It aims to develop the software and integrating the calibration by the input and output of validation experiments conducted in the test. The software is to be done by using matlab 2010a and a user interface that's easy for users. Capability of this software has tested by processing some data running by researchers and yield conclusions that of waves getting bigger and bigger and it is the tension that occurs at a rope.

Keywords: matlab, software, waves force, irregular wave