WAVE FORCE ANALYSIS SOFTWARE FOR ENERGY AND OCEAN ENVIRONMENTAL LABORATORY, DEPARTMENT OF OCEAN ENGINEERING, FTK-ITS

Student Name : Fendi Hidayat
NRP : 4308 100 010
Department : Ocean Engineering, Faculty of Marine Technology, ITS
Supervisors : Haryo Dwito Armono, S.T., M.Eng., Ph.D.
Drs. Mahmud Mustain, M.Sc., Ph.D.

ABSTRACT

Energy and Ocean Environmental Laboratory, Department of Ocean Engineering, FTK-ITS is often used for testing. One of them test the mooring force on the floating breakwater. This is one reason for making a software to help in the process of analyzing the mooring force. The software is made to function to assist in the calibration of the load cell sensor LUB-B 5 to 50 KB, and conduct analysis of wave force. The method used in this research is to use linear regression, linear correlation, calculation of variance, standard deviation, and Newton's laws are then compiled using Microsoft Visual Studio 2008. Preparation software called FORYS this has an easy user interface in use. The software has been created also portable so that it can be used in various computer or laptop. Results of testing that has been done, resulting in that the greater the force waves occur, the greater the stress that occurs on a mooring.

Keywords: software, regression, mooring, force