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Abstrak

Sea Wave Power Plant (PLTGL) is a new alternative to address the growing demand for electricity. To be able to work well, PLTGL should be able to experience the movement of heave and pitch as big as possible but still remain stable so that power generated can be optimized. This study aims to analyze the movement of the pontoon when given the tools mooring and we also need to calculate the tension that occurs in the mooring line. This experiment will vary the position of the mooring pontoon models (1.7 m and 1.2 m), draft model variation (1.75, 1.5, 1.2, 1, 0.7 m), as well as variations in wave period (1.2, 1, 0.8, 0.6 s) to obtain the results as motion pontoon.

Kata Kunci : Pontoon, Mooring, Heaving, Pitching, Mooring Line