

CHAPTER V

CONCLUSIONS

The conclusion of this research is:

1. The parameters of TLCD such as natural frequency (ω_n) and damping ratio (ζ_A) can be determined using a pendulum-type vibration system.
2. Based on the experiment, the optimum condition for TLCD that has 4 holes with 400 ml water inside.
3. TLCD with the optimum condition can dampen vibration of the structure up to 87.3% based on experiment and 67.09% based on simulation.
4. The result of the simulation which uses the same parameter in the experiment slightly different from the experiment due to non-uniformity in the system structure

