3B5 Vibrating Beam Lab

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Lab Group 7

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Brief Intro(1 paragraph)

Theory and Calculations (2-3 pages)

-Present and annotate equations used in matlab

Results and Discussion ( 2-3 pages)

Group Question(.75 page)

Conclusions (1 paragraph)

References

**Introduction**

This lab report is intended to give a thorough understanding of the Vibrating Beam Lab, done on the 20th September. This lab investigates a mechanical system with a single degree of freedom (DOF) and how it vibrates under both free and forced viscously damped conditions. The Theory and Calculations used to analyse the data gathered will be explained, as a majority of the calculations are done in MATLAB (MATLAB and Statistics Toolbox Release 2019b, The MathWorks, Inc., Natick, Massachusetts, United States.). The experimental results gained from this experiment are then compared to the theoretical results.