

Springed Cart and Pendulum Report

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Abstract

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1 Introduction

2 Theoretical Analysis

2.1 Generalized Coordinates

2.2 Equations of Motion

3 Numerical Analysis

3.1 Cart-dominated Motion

3.2 Pendulum-dominated Motion

3.3 Mixed Motion

3.4 Physical Simulation

4 Conclusion

Summarize the findings and suggest possible future work.

References

[1] Author, *Title of the Book*, Publisher, Year.