

Muscle Wire Strings

December 2017

1 Introduction

This isn't a paper... but maybe LATEX is a decent format in which to compile notes that can include equations and diagrams.

2 Vibrating Frequency

$$f = 1/2\pi\sqrt{k/m}$$

k = linear spring constant

m = mass

"The equation predicts that the frequency of a vibrating system will double if the spring constant quadruples, and will halve if the mass quadruples." [1, 242]

References

- [1] D. Gareth. Loy. *Musimathics the mathematical foundations of music*. MIT Press.