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Electroquake

The title of my project is Electroquake. The purpose of my experiment was to find out if I could build a simple yet effective mass damper with the use of an electromagnet. The mass damper built with a simple electromagnet was placed inside a model building and with the use of a force probe I was able to log the results of my experiment. In my experiment I did two different tests. One test was with just the swaying of the building and the other was the effects of the mass damper. My results of my data show that my mass damper could effectively dampen the movement imposed on it by my earthquake simulator if I had the right device that would allow the two opposing forces to collide. Instead I was able to run the two tests separately and compare the results. The result was that the earthquake imposed about .5N and the mass damper imposed about .3N of opposing force. This result would indeed force the structure to slow lateral movement much more rapidly.