In this lab you will develop a way to measure mass in space, using our oscillator models. This is Lab 3.3 in the text.

In your writeup, please include the following:

1. The writeup as described in Lab 3.3.

2. Now suppose, as in part 4 in the text, that some small but potentially significant amount of damping is present. Develop a measurement protocol for the mass-measuring chair. Is there a way the amount of damping could be determined? How should the oscillation timing occur to minimize error? Note that timing a single oscillation might be more error-prone than timing 20, then calculating the time for one. But this would mean damping plays a larger role... Find a sensible strategy to deal with all this.