

MAE-94 Lab Assignment – 6B

Motion Study

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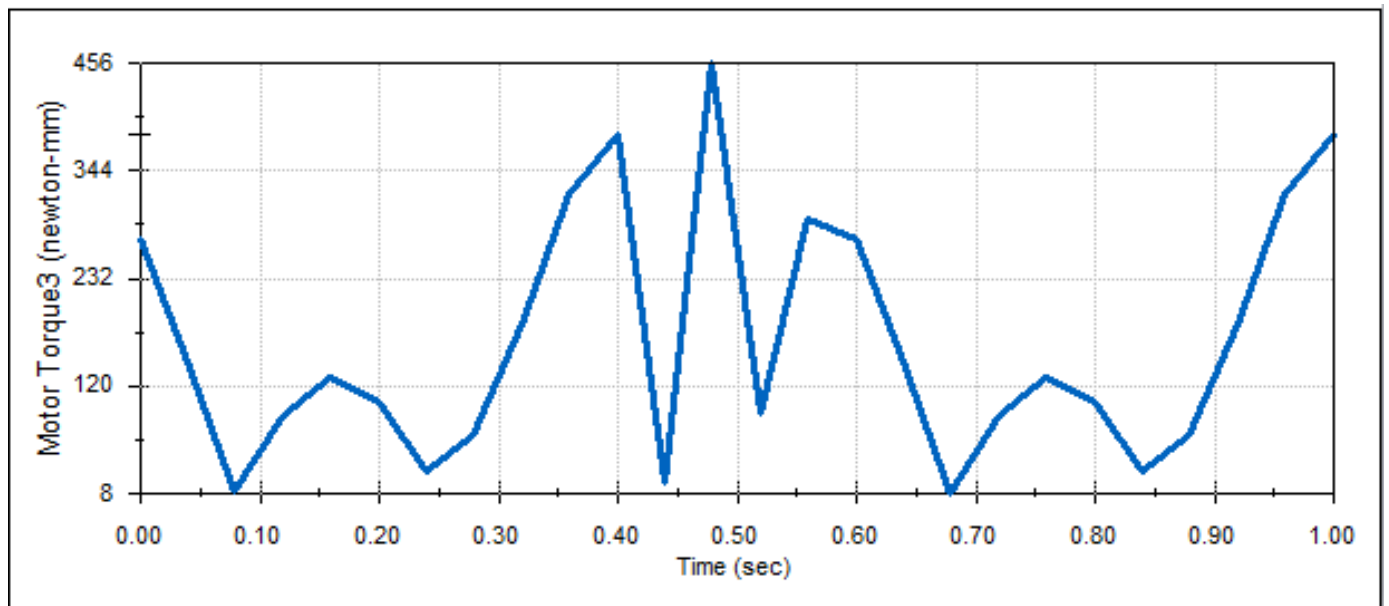


Figure 1. 4-Bar Linkage Motor Torque plot (no gravity, maximum torque = 456 N-mm)

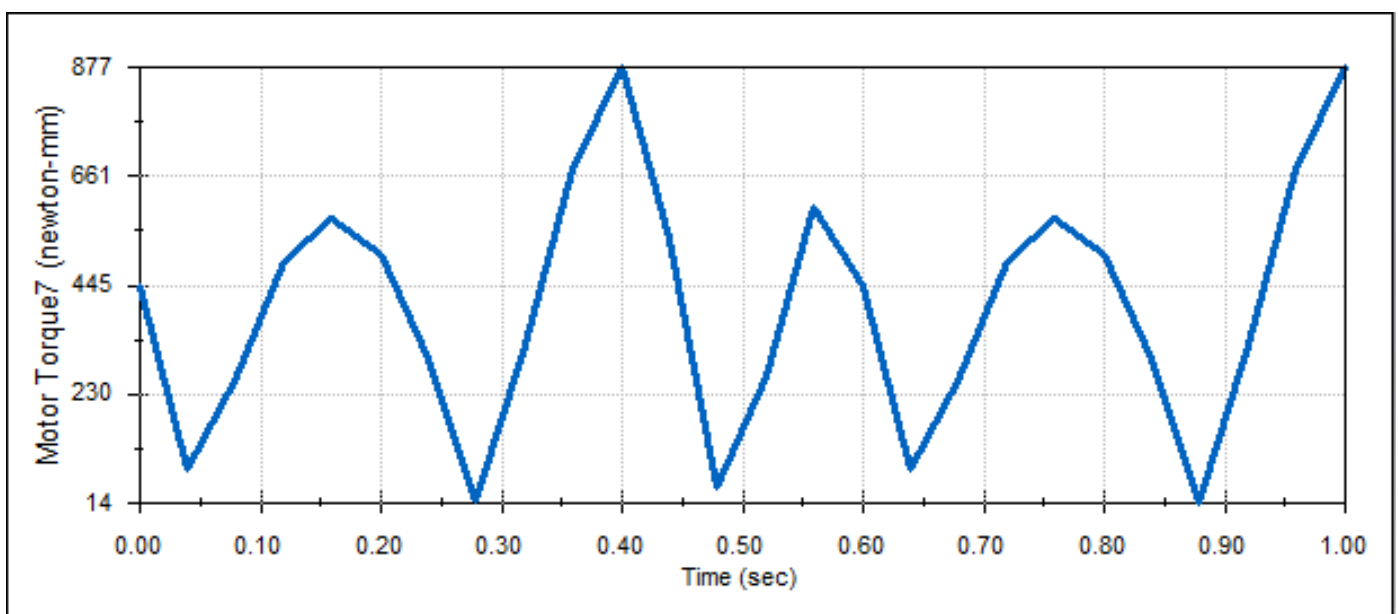


Figure 2. 4-Bar Linkage Motor Torque plot (with gravity, maximum torque = 877 N-mm)

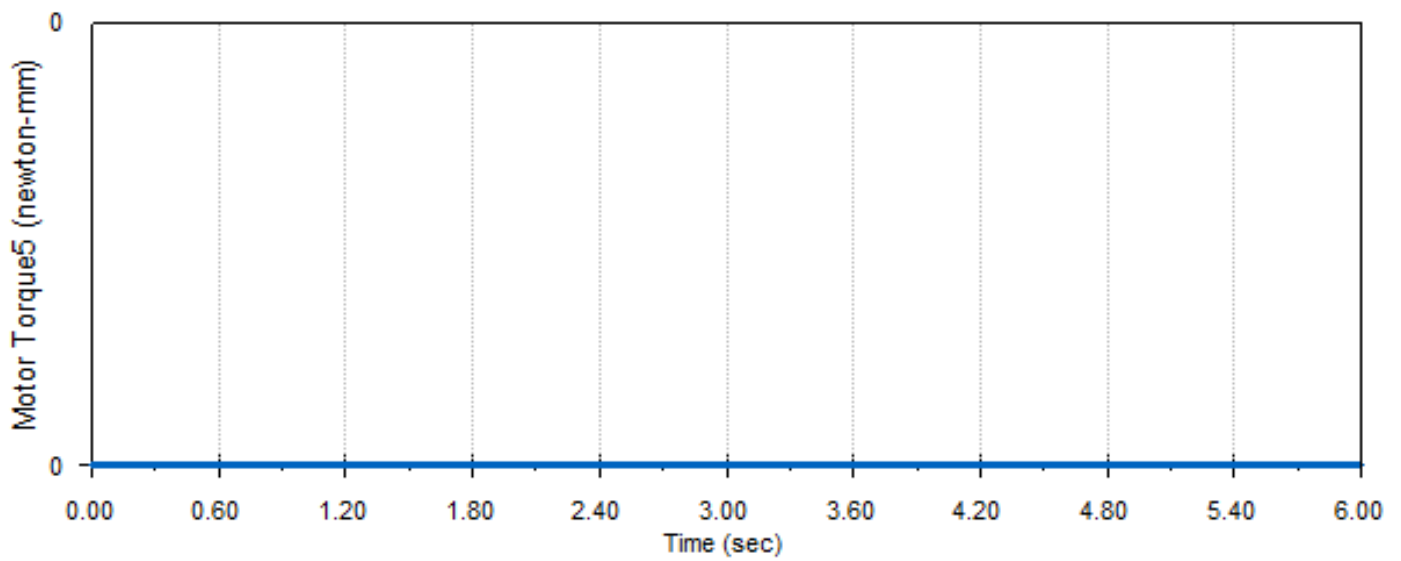


Figure 3. Compound Gears Motor Torque plot (maximum torque = 0 N-mm)

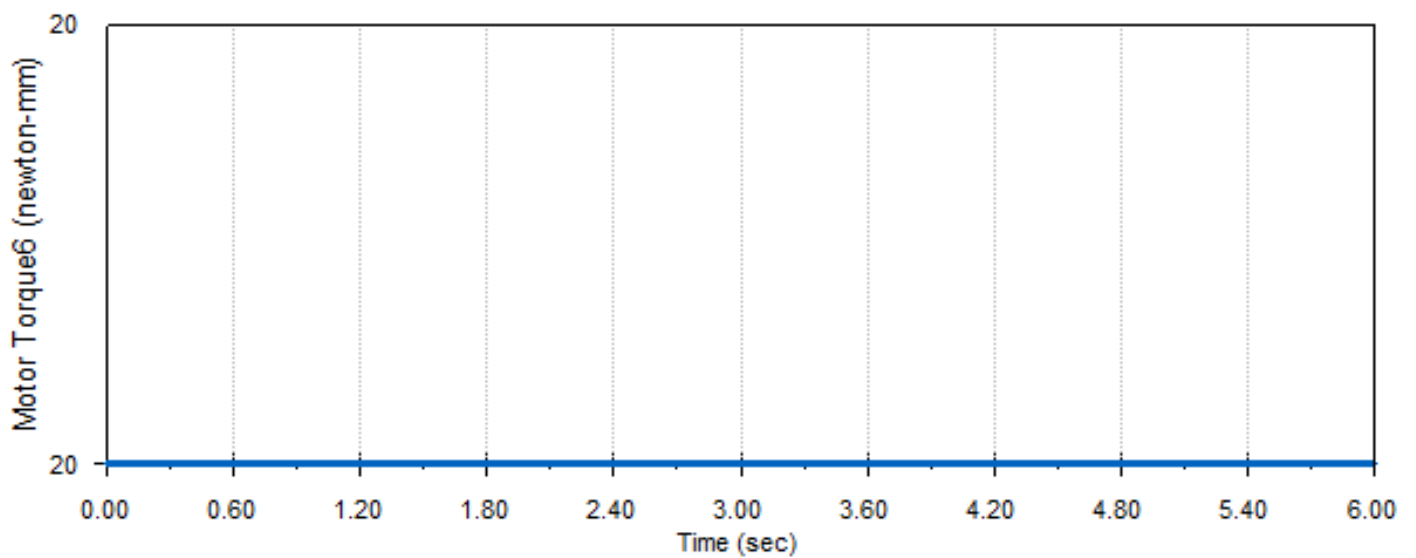


Figure 4. Compound Gears Motor Torque plot (counteracting torque added, maximum torque = 20 N-mm)

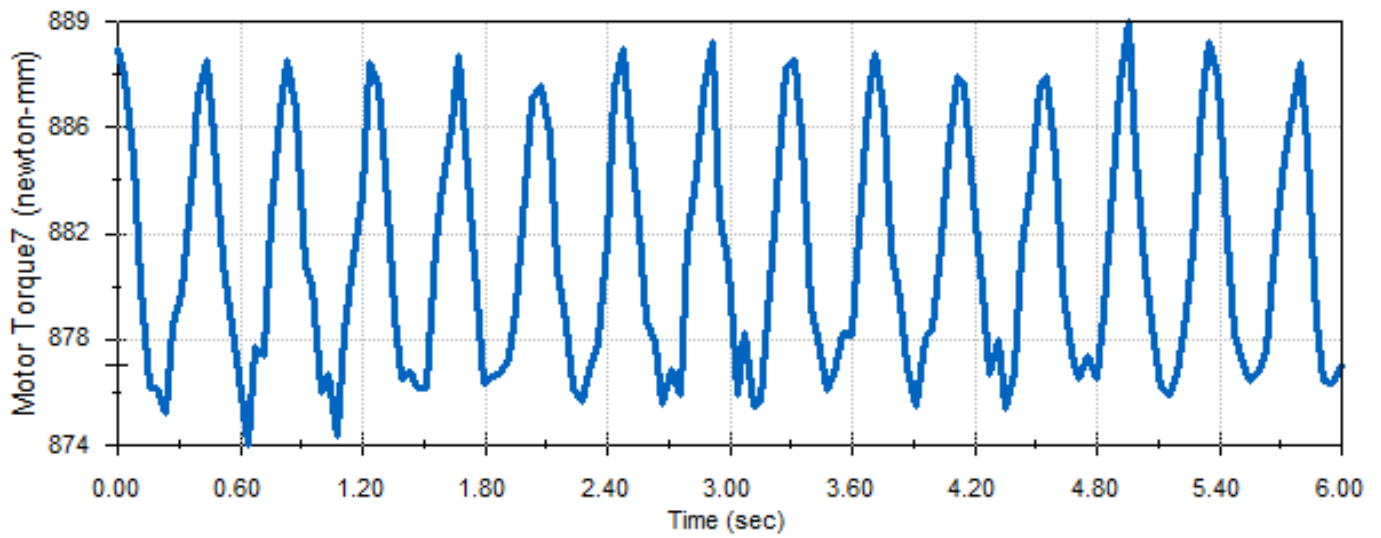


Figure 5. Compound Gears Motor Torque plot [friction added (Dry), maximum torque = 889 N-mm]

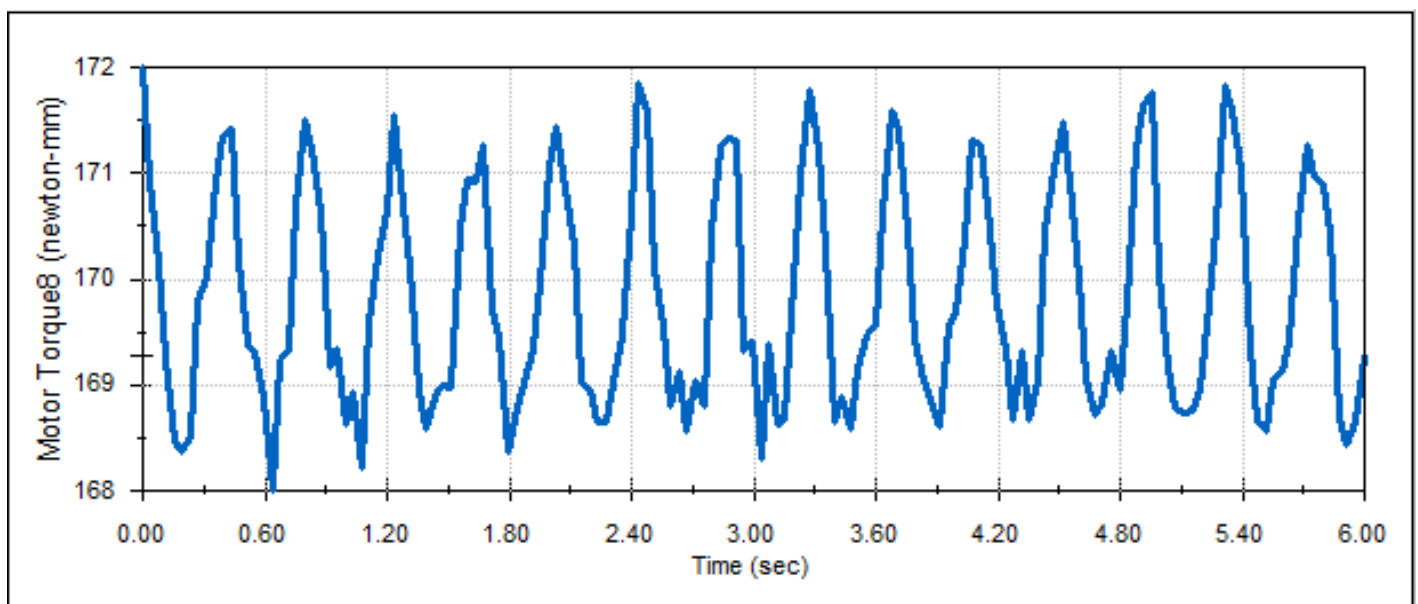


Figure 6. Compound Gears Motor Torque plot [friction added (Greasy), maximum torque = 172 N-mm]