PROJECT 3 FINAL PROPOSAL

submitted in your preliminary proposal, please complete this template with an iteration of what you previously turned in: include any new information or refinements you this template to lay out the QMRI for this new idea. Either way, complete the entire template. have made to your question, model, results, and/or interpretation. You can also choose to pursue a different idea than you submitted for your preliminary proposal; use Your last ModSim Project Proposal! This is the project idea you intend to pursue for the rest of the semester. If you are choosing to continue working on the idea you



Question

What is the motivating question? Why would the answer matter, and who would care?



Model

What are the key elements of the model (e.g., State and System objects)? Draw a schematic diagram (with objects, dimensions, forces, and axes) How will your model help you answer the question?



Given an emergency scenario where a spacecraft in heading to the moon is knocked off course (think Apollo 13), what is the minimum amount of course trajectures—corrections (velocity, 2) it would take to singshut the spaceship around the moon and back to Eath?

Important b) c space travel will should be in three ord this is a very real situation that could occur.

being the Lagrange point?

It simashots around the moon and leturns to some point. That point At what angle and velocity ob I need to launch a spacecraft such that

to answer the question? How do you expect the results



Modeling and Simulation, Fall 2018

4 Interpretation

to get the spacecraft buck. We expect to produce a singular force vector that can bring the space craft back an track or if possible, a list of aptimized ourse arrections (minimized velocity change)

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