Instructor: Dr. E.M. Cliff

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Grading:
1. Two in-class exams 40 %
2. Final Exam 35 %
3. Homework 25 %

Whereas you are permitted and even encouraged to discuss homework problems, please be sure that the work you turn in is your own. This means that you should not simply copy. There’s a simple rule: if you would be embarrassed to tell your grandmother about it, then don’t do it.

A variety of homework problems will be assigned, and selected problems will be collected for grading.

Outline

Chapter 1, Two-Body Problem
Chapter 2. Coordinate Systems
Chapter 3. Basic Orbital Maneuvers
EXAM 1 (24 September)
Chapter 8. Interplanetary Transfers
Chapter 4. Kepler’s Problem
Chapter 5. Gauss and Lambert Problems
EXAM 2 (12 November)
Chapter 7. Lunar trajectories
Clohessy-Wiltshire – Intercept and rendezvous
Elements of Optimization