Flixan Examples

The following examples demonstrate the application of Flixan program to model and analyze in combination with Matlab a variety of flight vehicles.

- 1. An Apollo style long and flexible launch vehicle
- 2. Autonomous Landing of a Glider vehicle with fuel sloshing tanks
- 3. Fighter aircraft that is controlled by both, aero-surfaces and thrust vectoring
- 4. Large Flexible Space-Station that uses RCS and CMG control
- 5. Multi-Engine Shuttle type first stage liquid booster that uses differential throttling
- 6. Space Shuttle Ascent first stage analysis at Max-Q with flexibility and sloshing
- 7. Space Shuttle early Entry flight control analysis using aero-surfaces and RCS
- 8. Twin Booster rocket with slosh at high angle of attack
- 9. Momentum Biased Surveillance Satellite with RCS and Reaction Wheels
- 10.Shuttle Payload non-linear stability analysis using Coulomb dampers to attenuate flexibility
- 11. Analysis of a Single-Stage to Space vehicle with multiple engines and slosh
- 12.Single engine small rocket-plane in level flight
- 13. Missile with a single engine and a lifting wing
- 14.A fast maneuvering pointing Spacecraft that uses Single-Gimbal CMGs
- 15.Comet interceptor with divert thrusters