

AIRCRAFT DYNAMICS LIBRARY



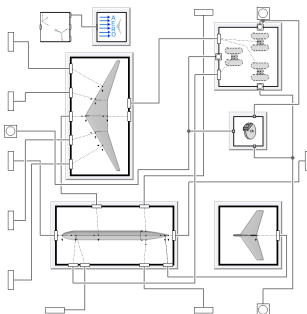
- Modeling and simulation of fixed wing aircraft and related sub-systems suitable for architecture design exploration and detailed analysis.

Aircraft Dynamics Library provides an open and user-extensible environment for full aircraft and sub-system simulation. Structured but flexible system architectures are built based on an extensive library of predefined aircraft components. This lets users assemble any class of fixed wing aircraft in a convenient and straight-forward fashion.

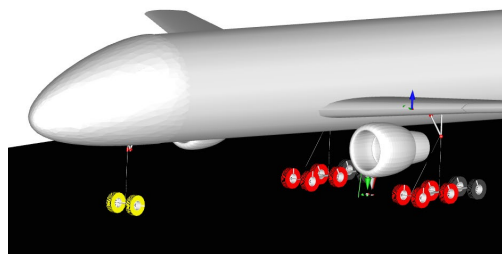
Aircraft Dynamics Library is unique in that it provides true multi-body, multi-domain simulation to support the analysis of any conventional or unconventional architecture.

KEY FEATURES

- Extensive library of pre-defined components including wings, fuselages, landing gears, flight controls, power systems, consumer systems and many more
- Six and three degree of freedom flight dynamics models
- Detailed landing gear models
- Empirical sizing and synthesis methods based on mature and openly published methods
- Open code and easily extensible



Templates accelerate model build-up.



Tires without contact (yellow), slipping (red), in contact (grey).



Parametric wing geometry.

Modelon