

# VTOL dynamics model

## States

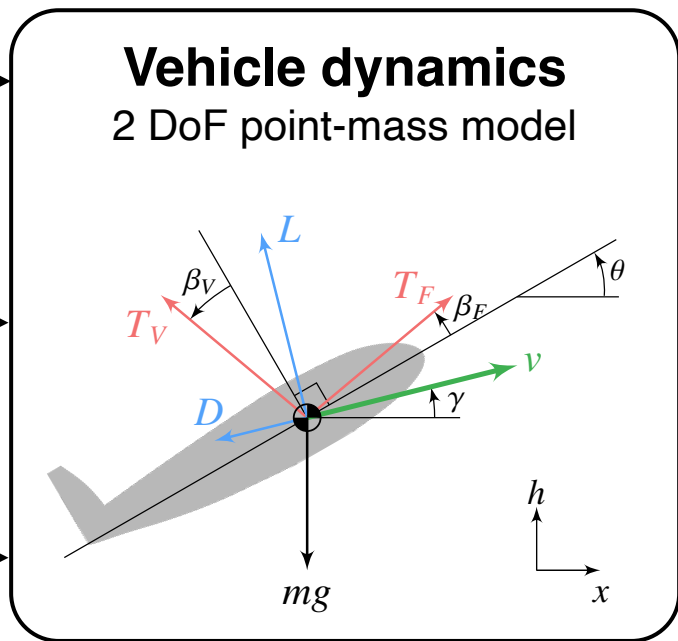
- Horiz loc.
- Altitude
- Velocity

## Controls

- Pitch attitude
- Rotor RPMs

## Design

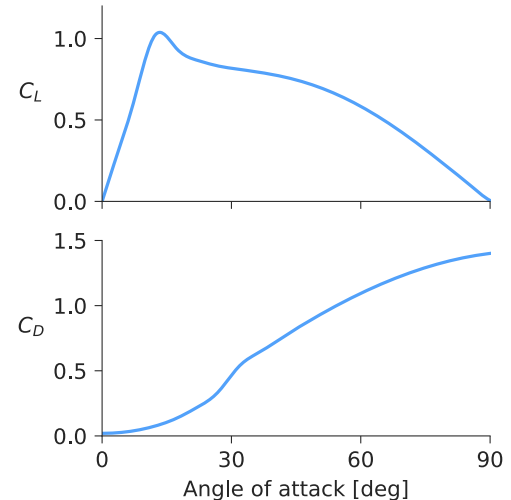
- UAV design
- Rotor design



State rates  
Power  
Torque

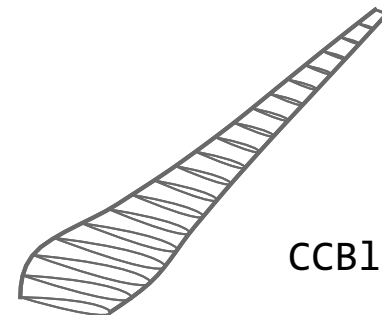
## Aerodynamics

Empirical post-stall model



## Rotor analysis

Blade element momentum (BEM) theory



CCBlade.jl