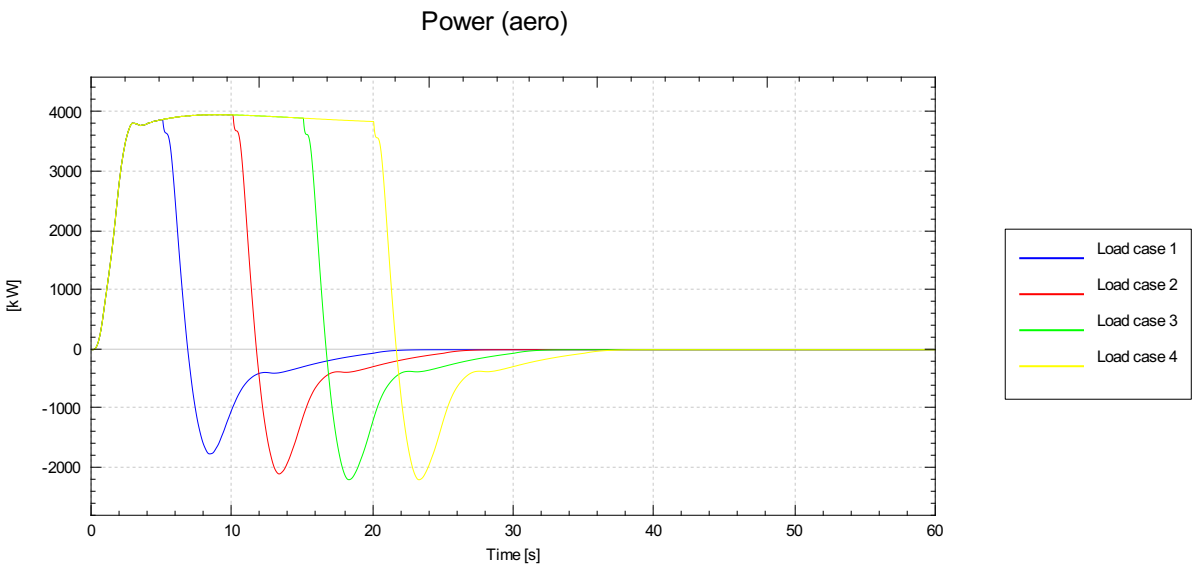
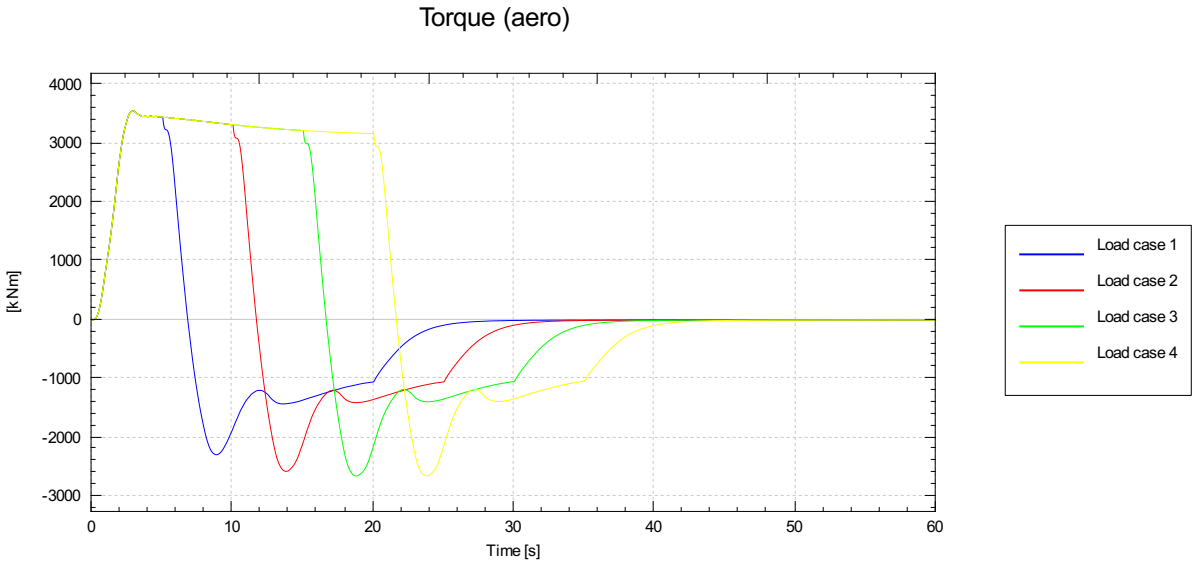
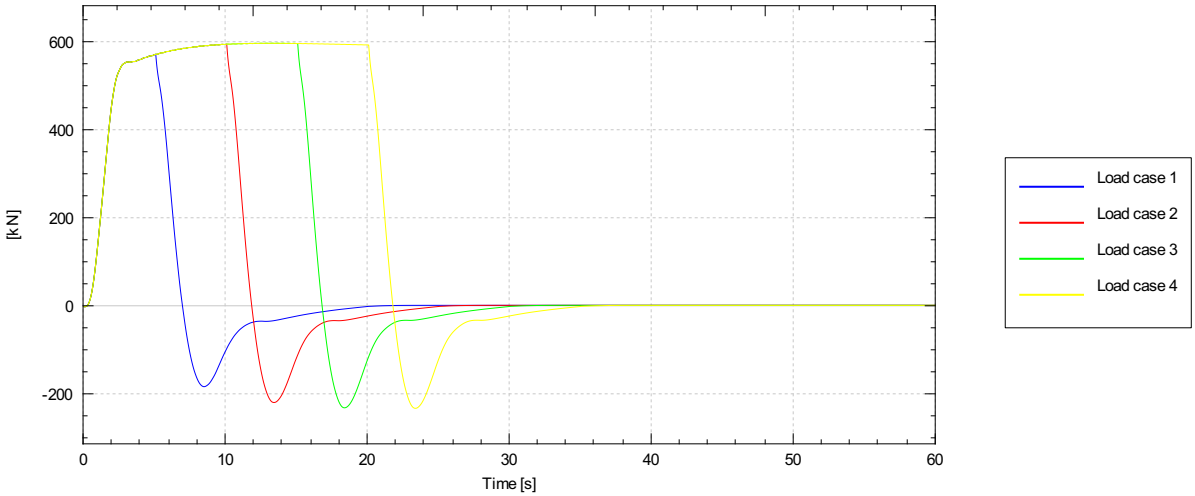
Comparison of load cases

Sensor Rotor

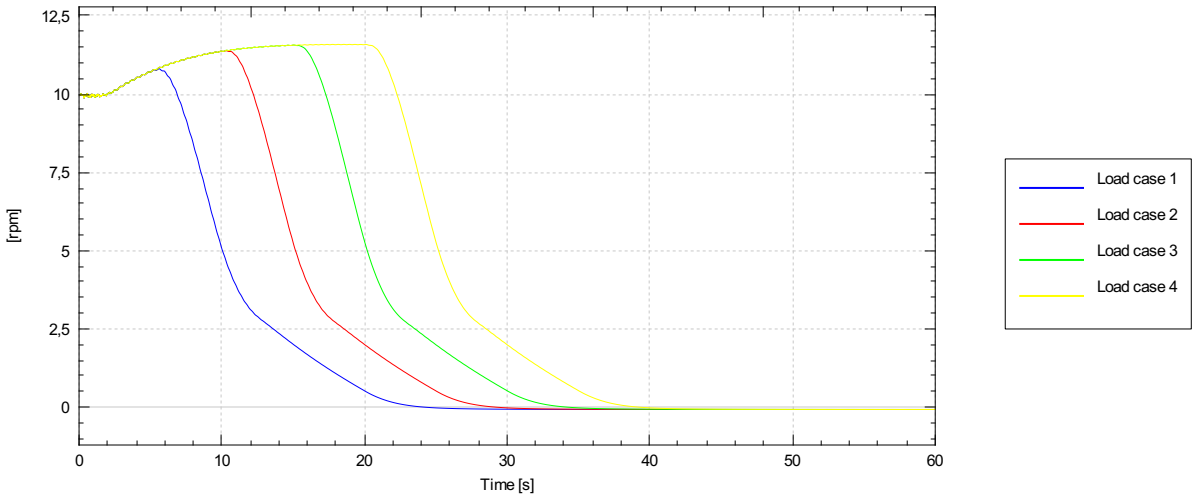




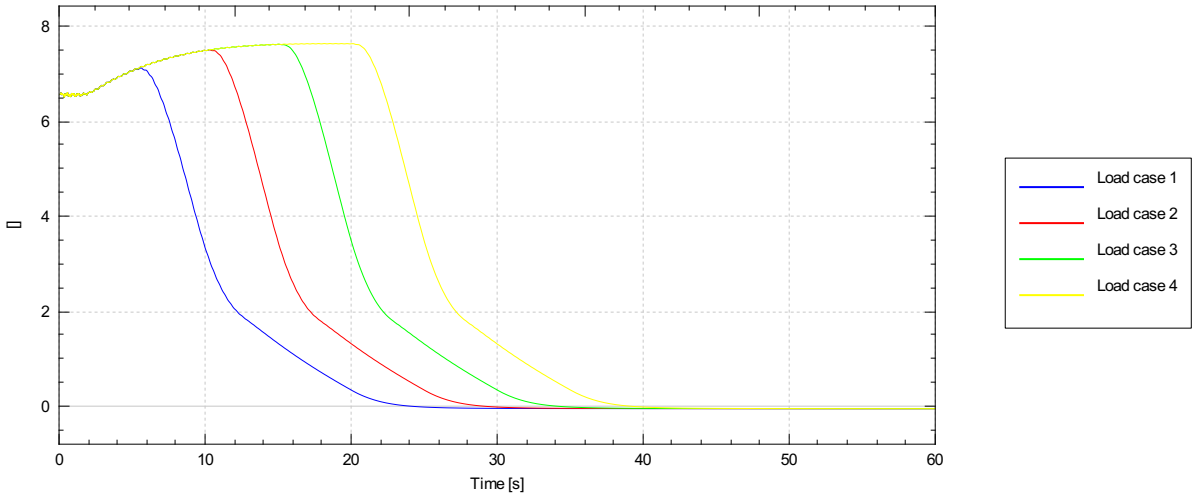
Thrust (aero)



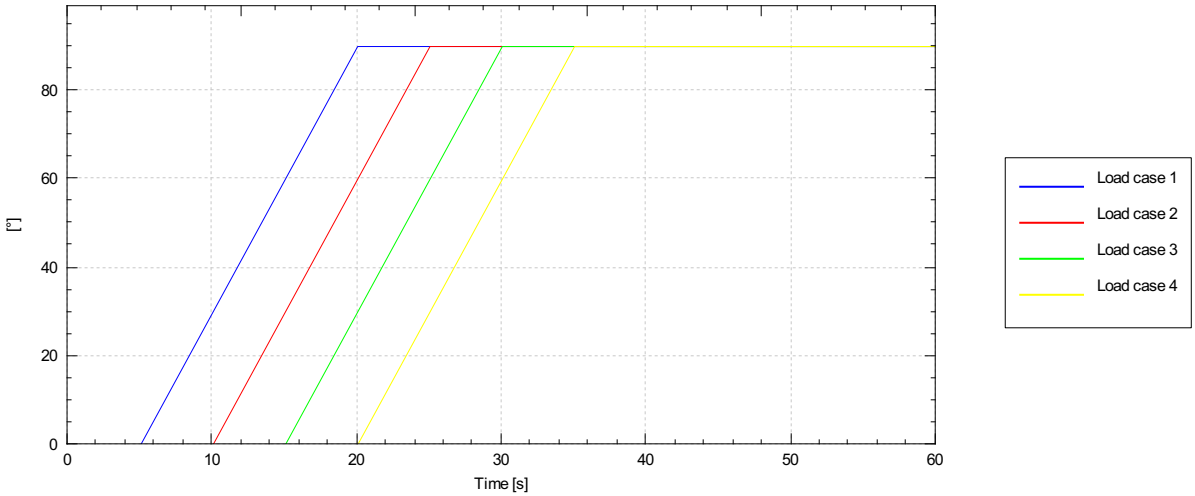
RPM



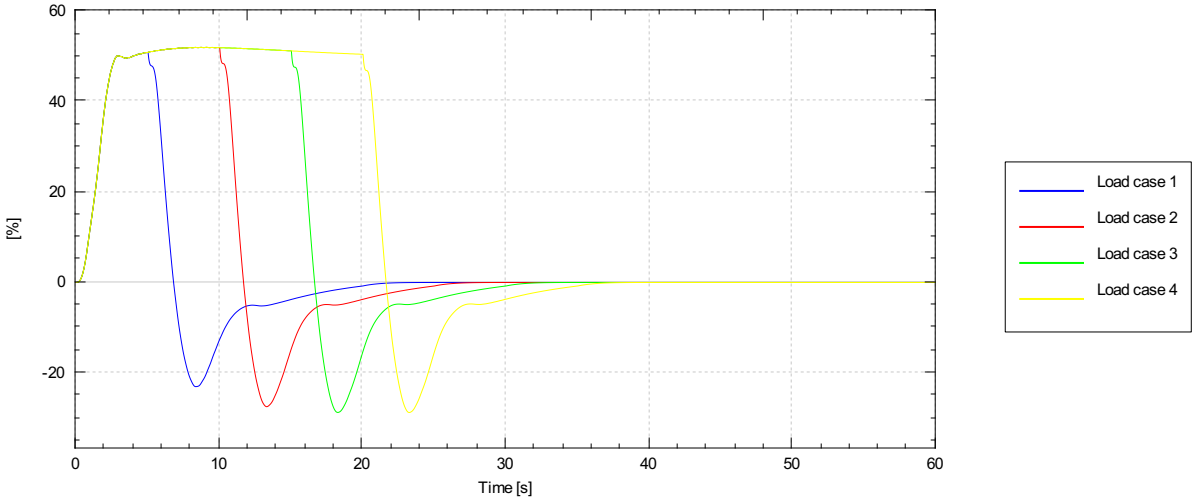
TSR



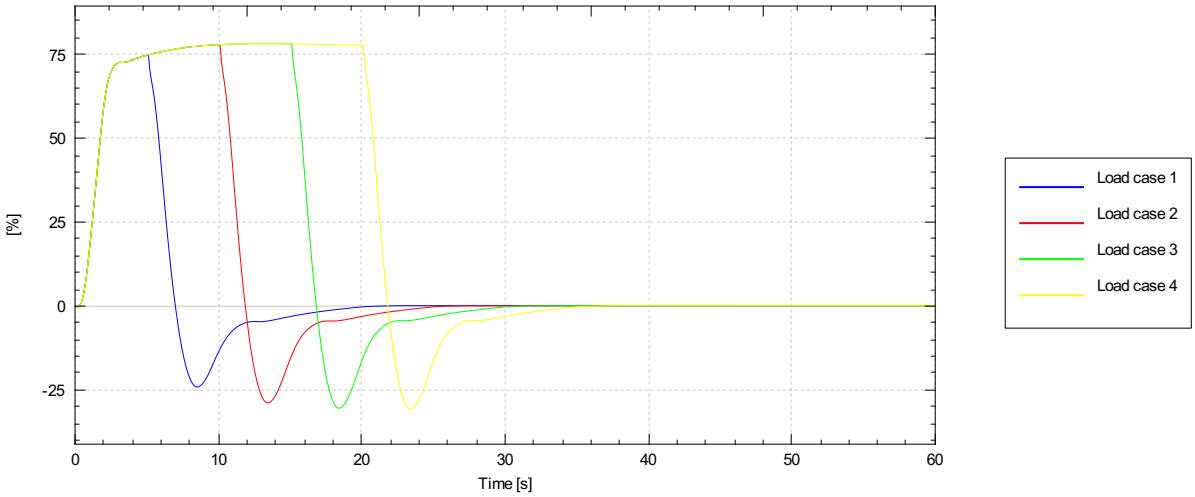
Demanded collective pitch angle



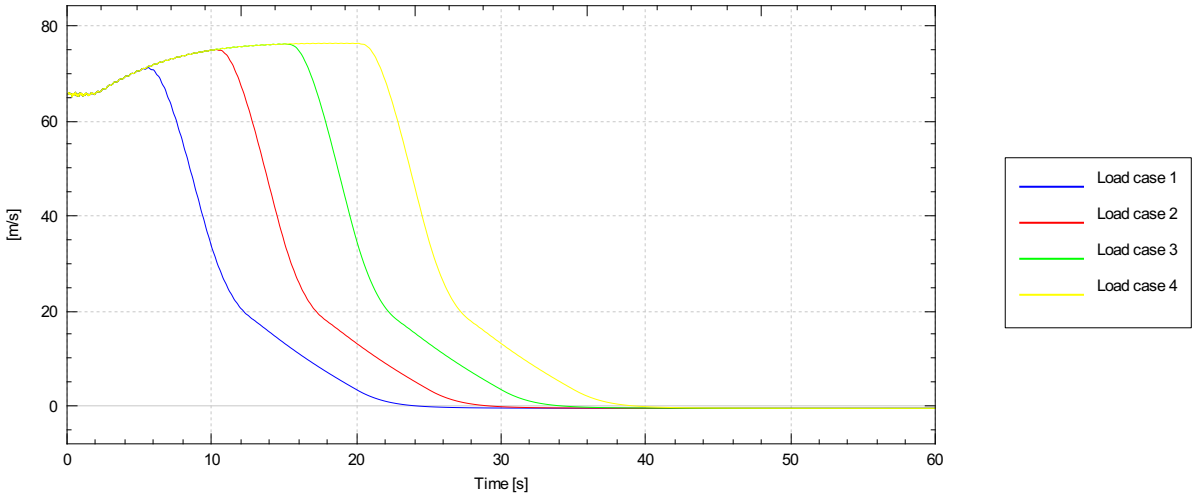
Power coef. (CP)



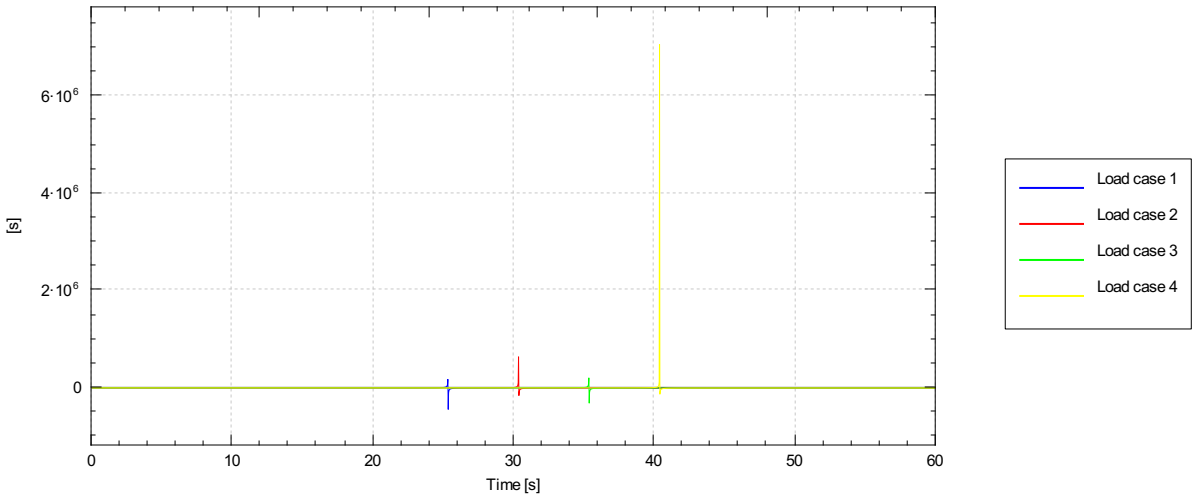
Thrust coef. (CT)



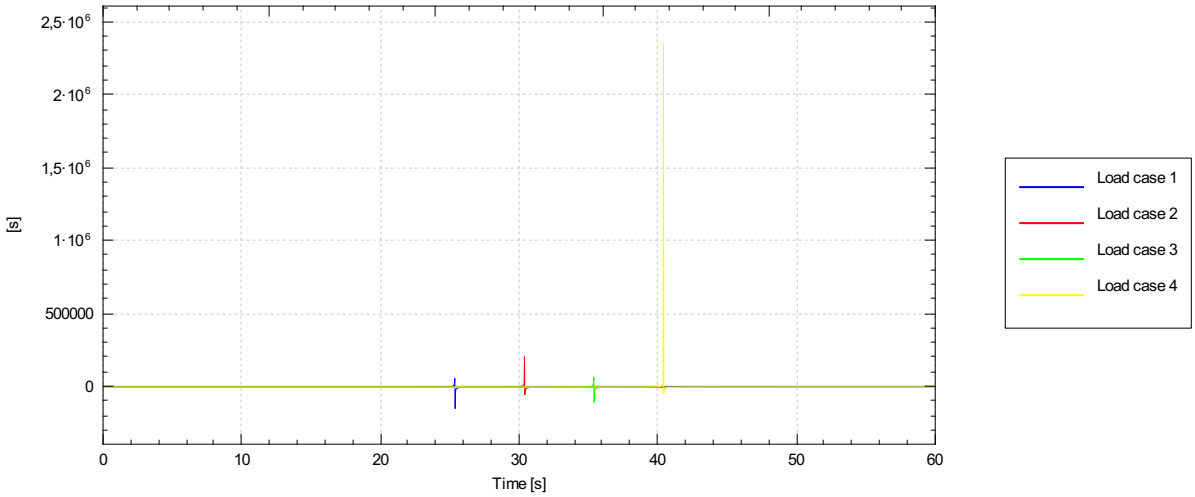
Tip speed



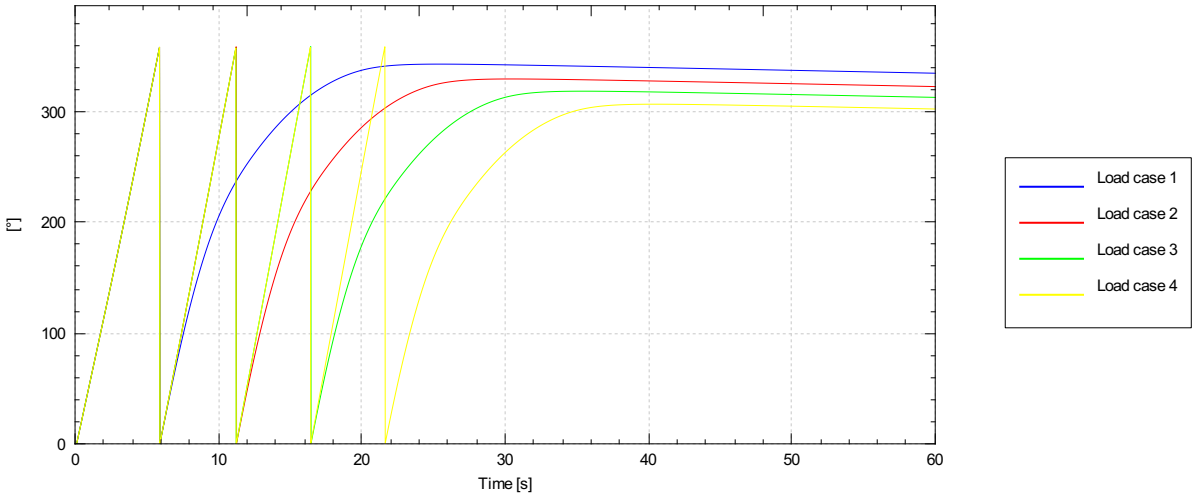
1P (one revolution)



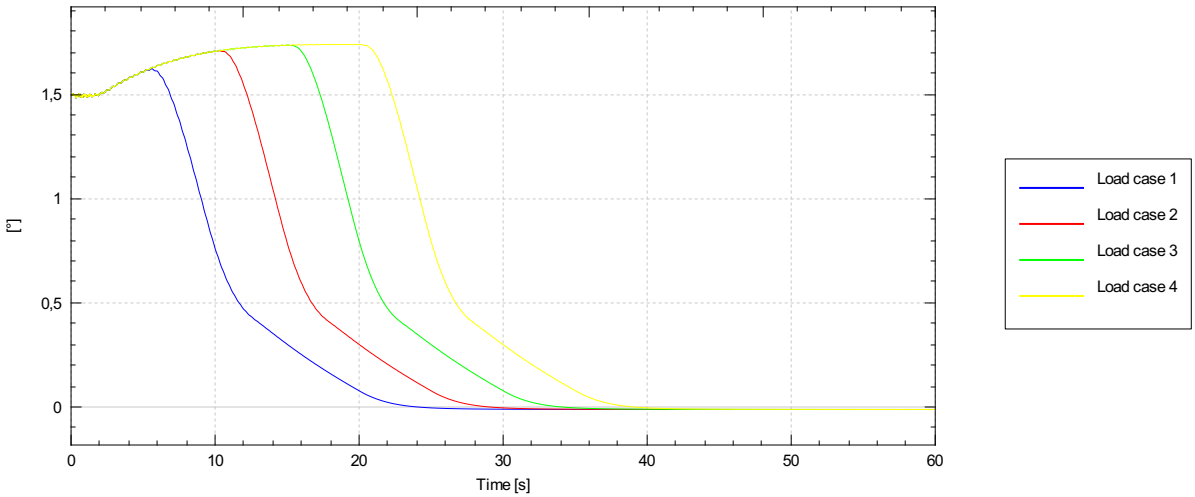
nP (blade passing)



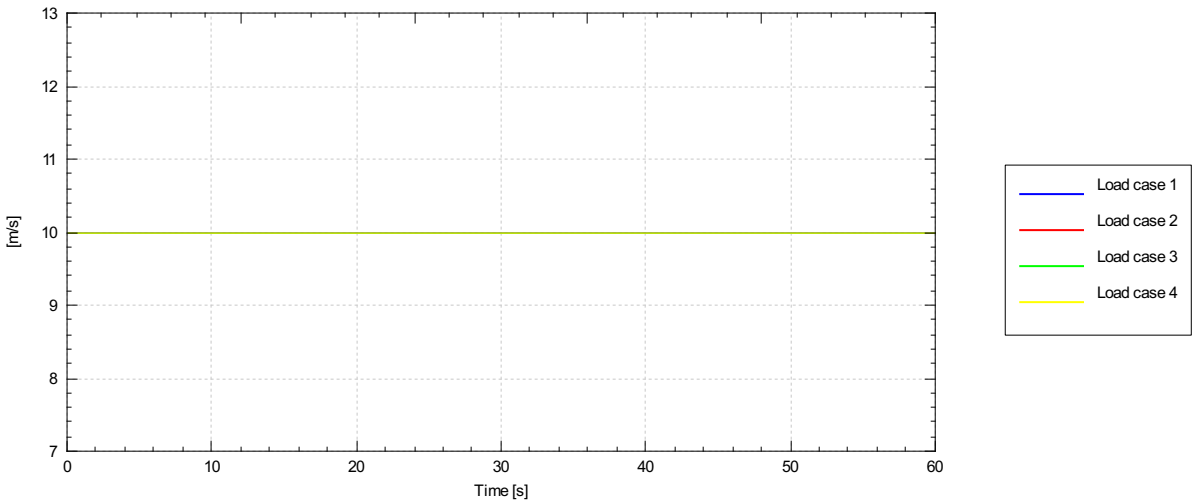
Azimuth angle

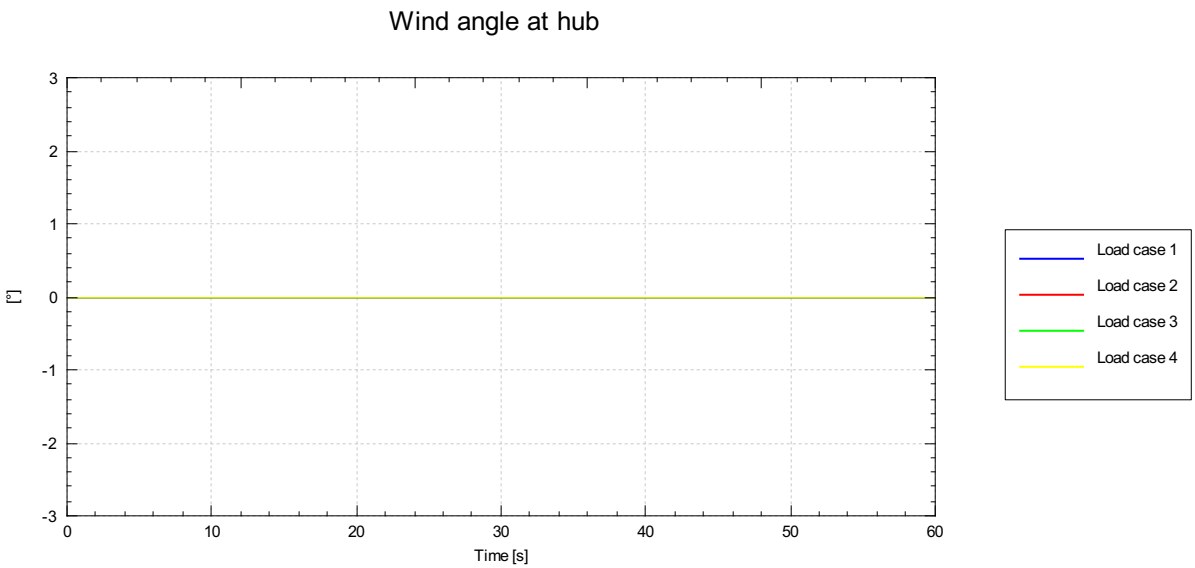


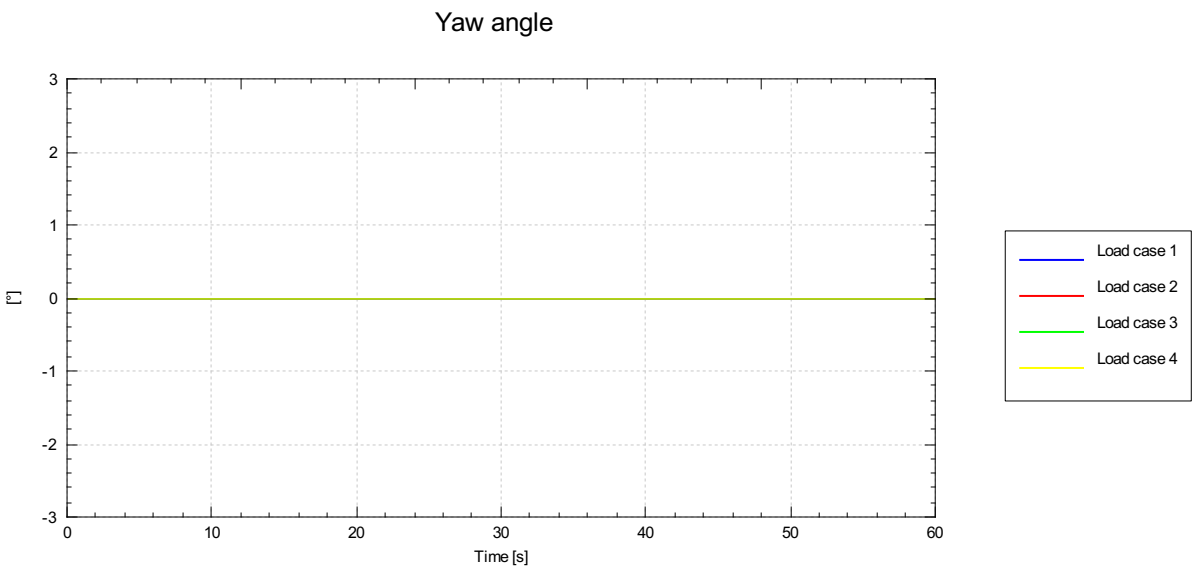
Rotation per timestep



Wind speed at hub, magnitude

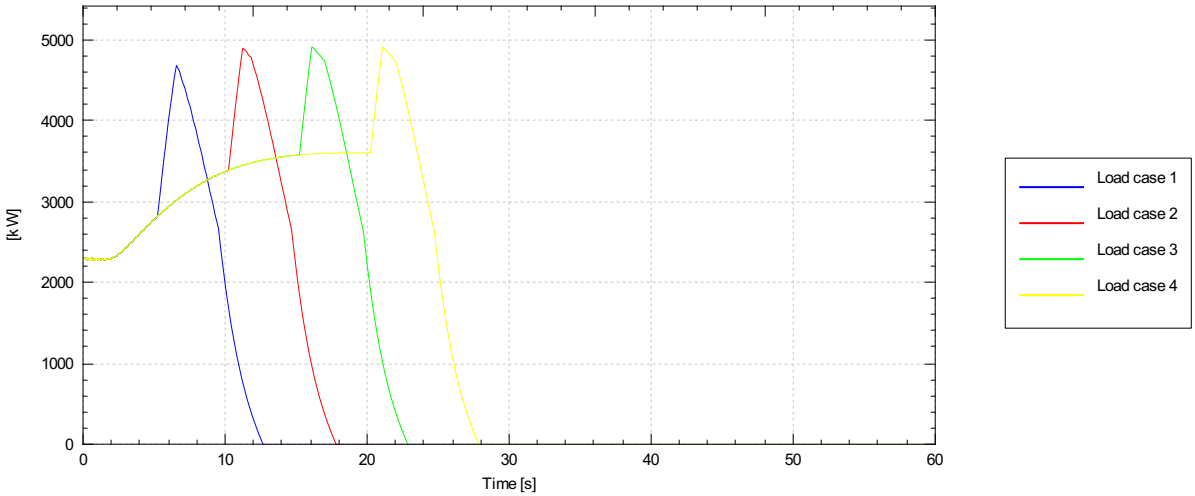




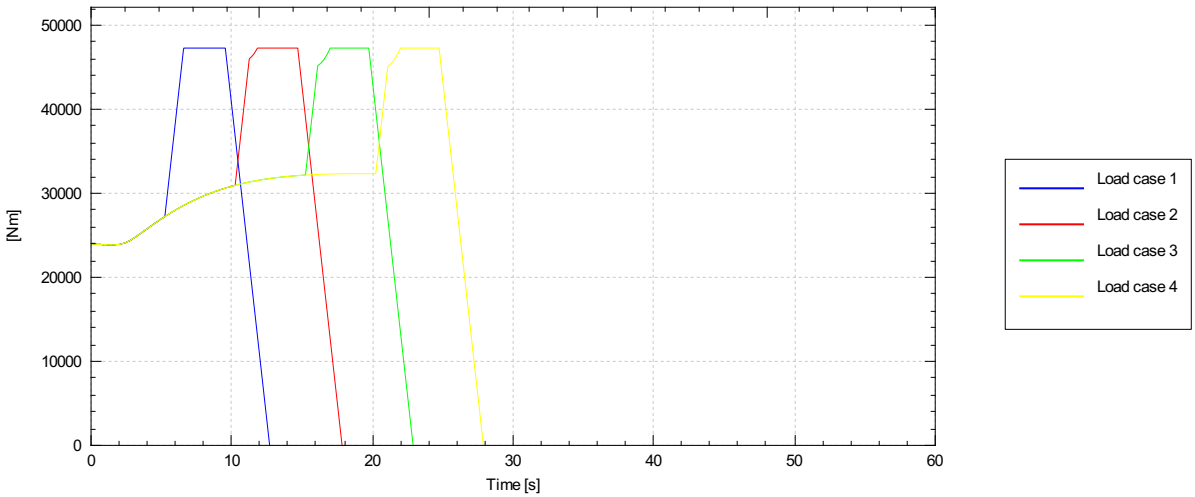


Sensor Generator

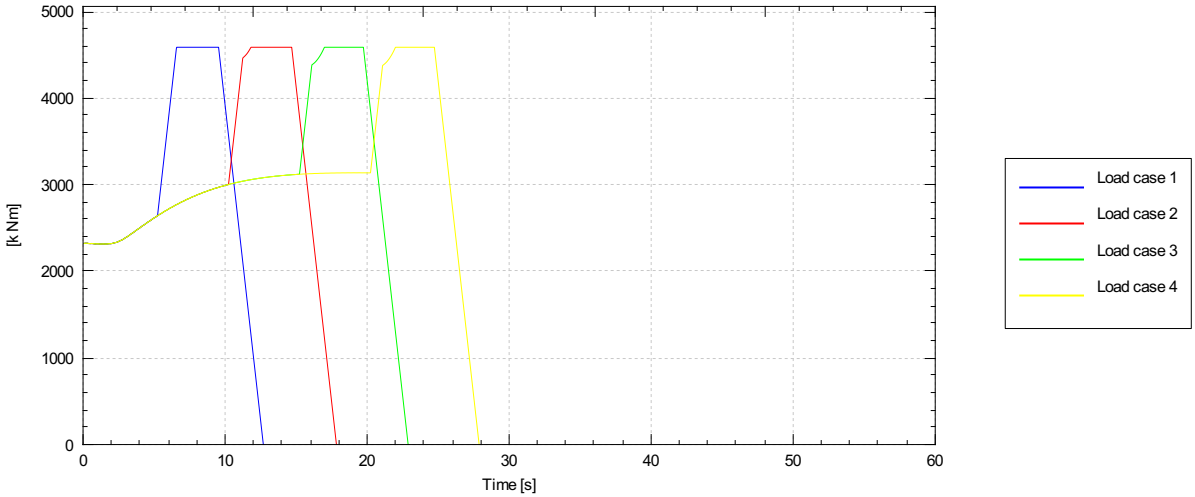
Power (electrical)



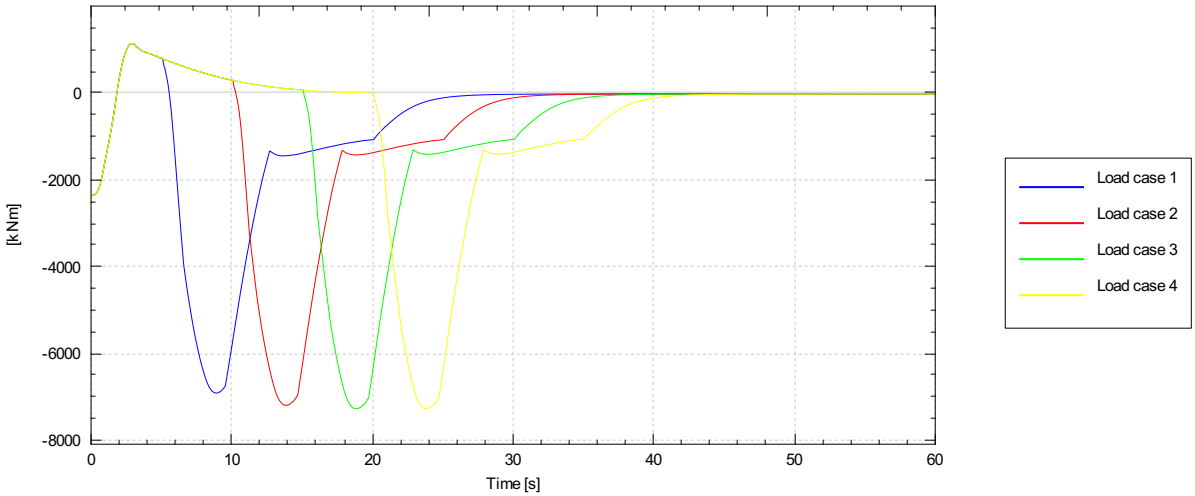
Torque



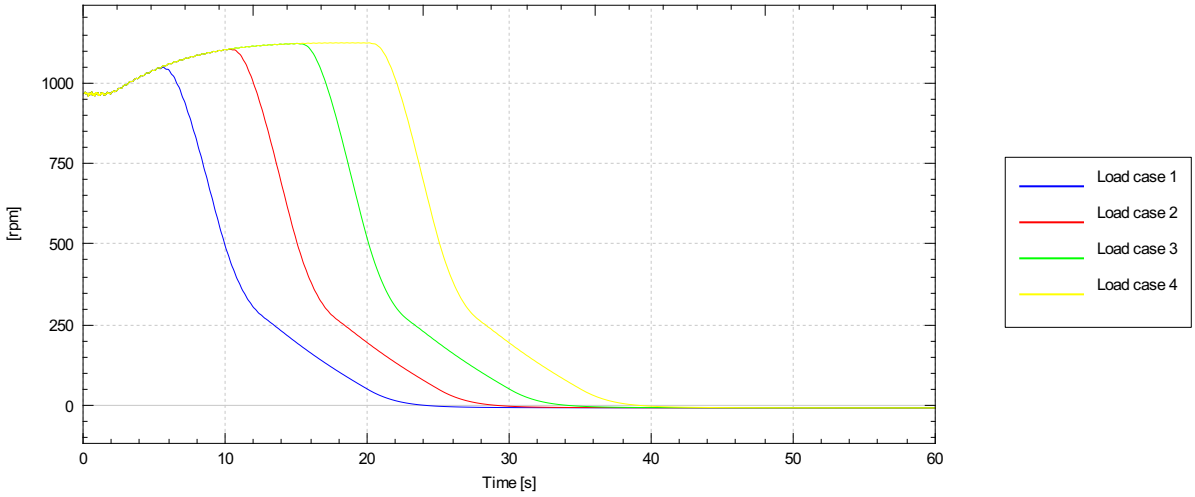
Torque on main shaft



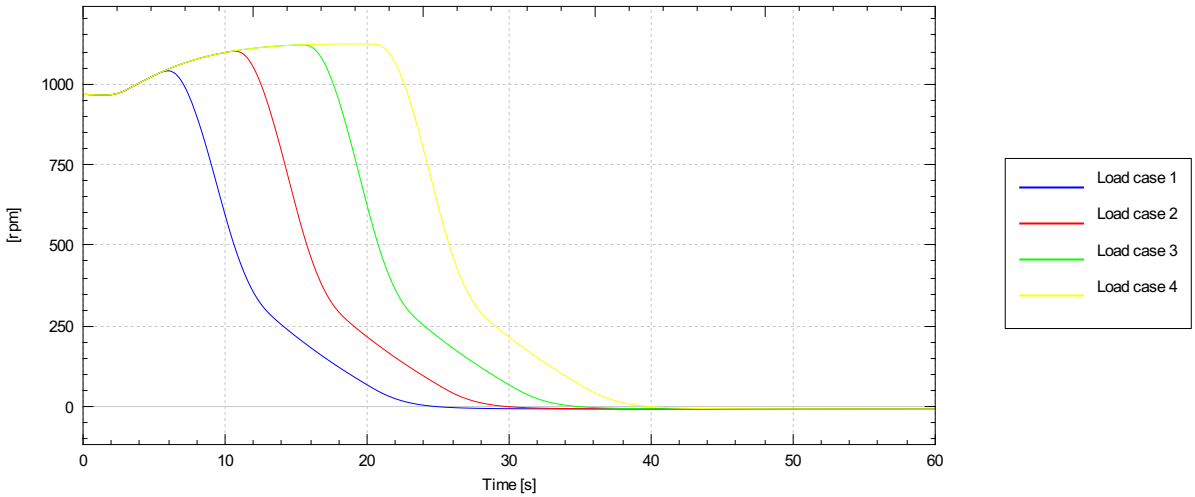
Torque diff. on main shaft

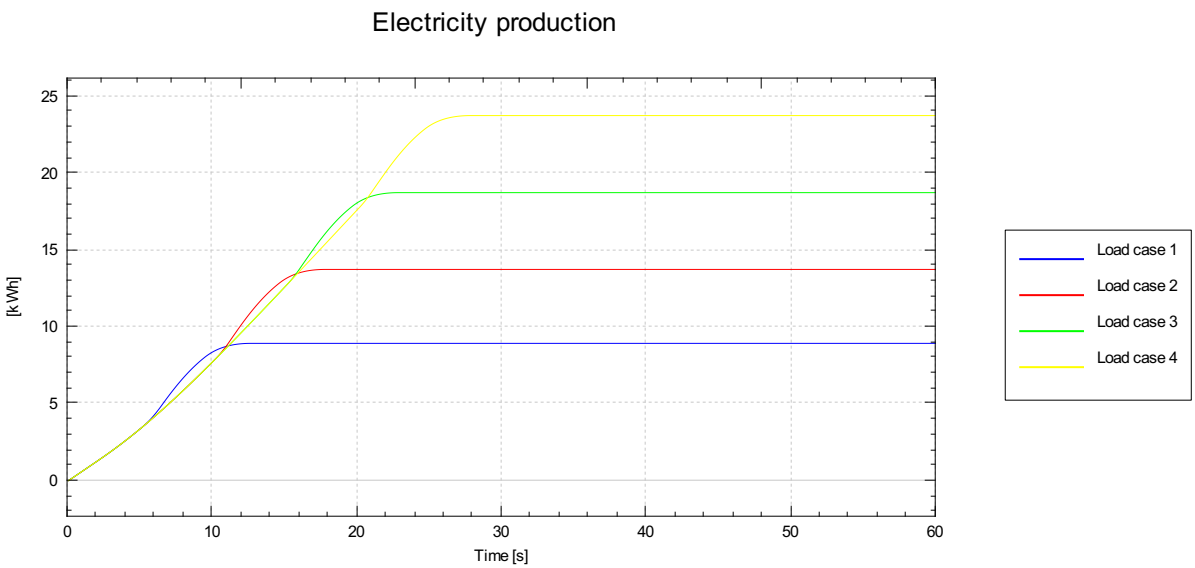


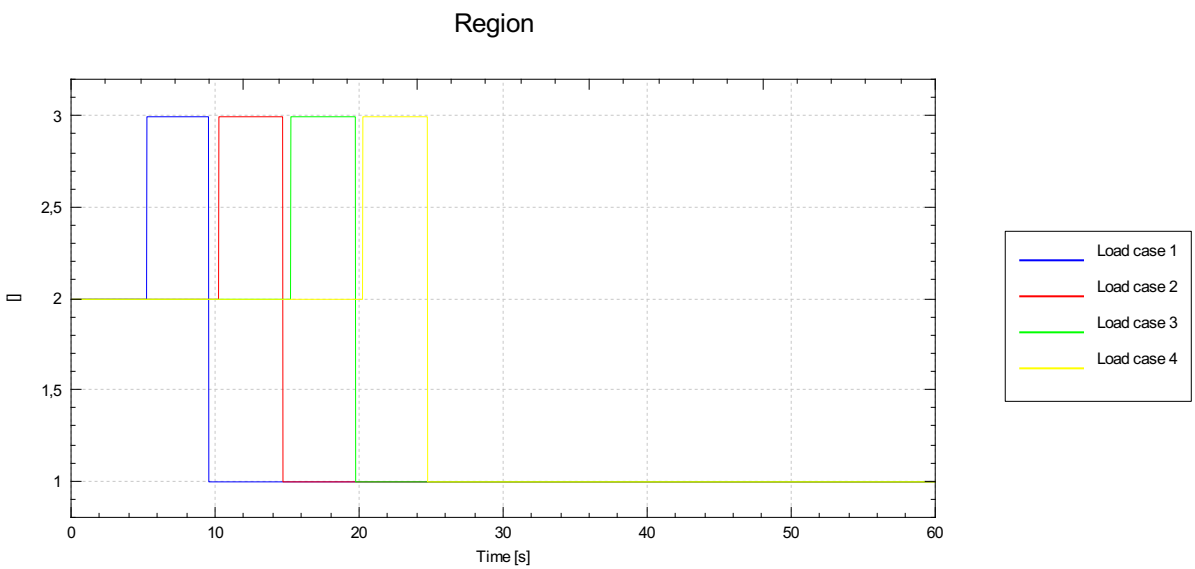
RPM



Filtered RPM

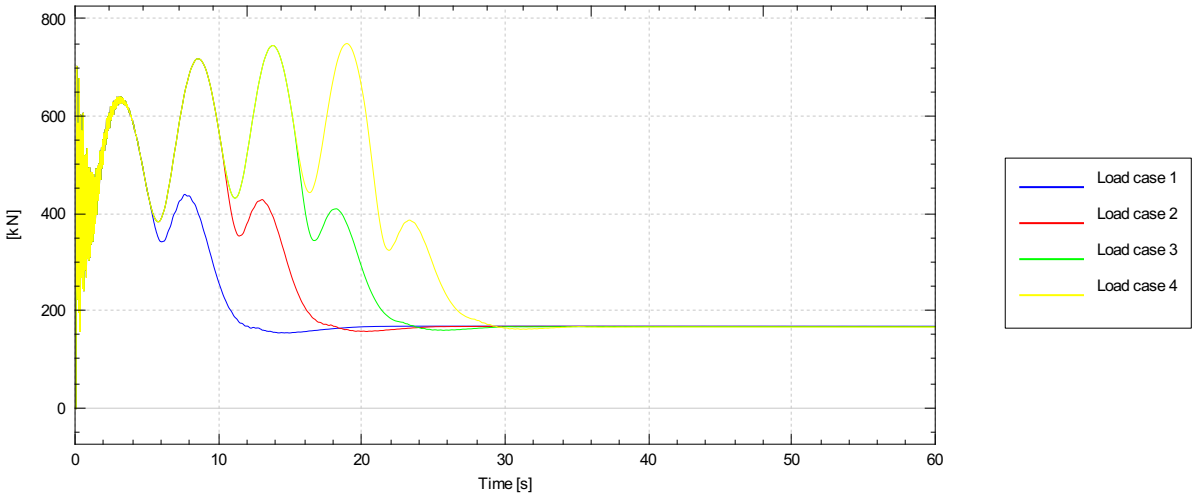




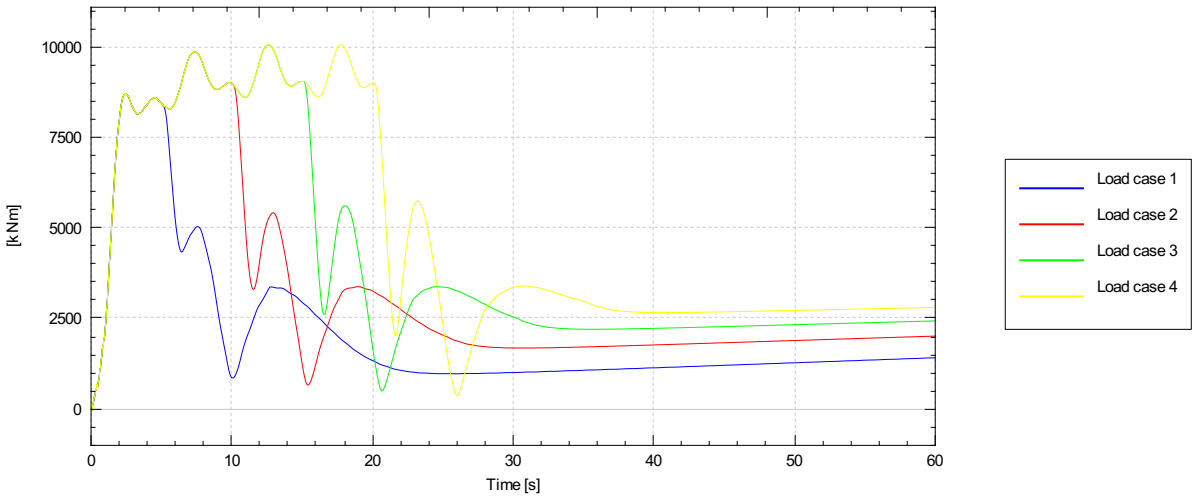


Sensor Blade [Time] [Blade 1]

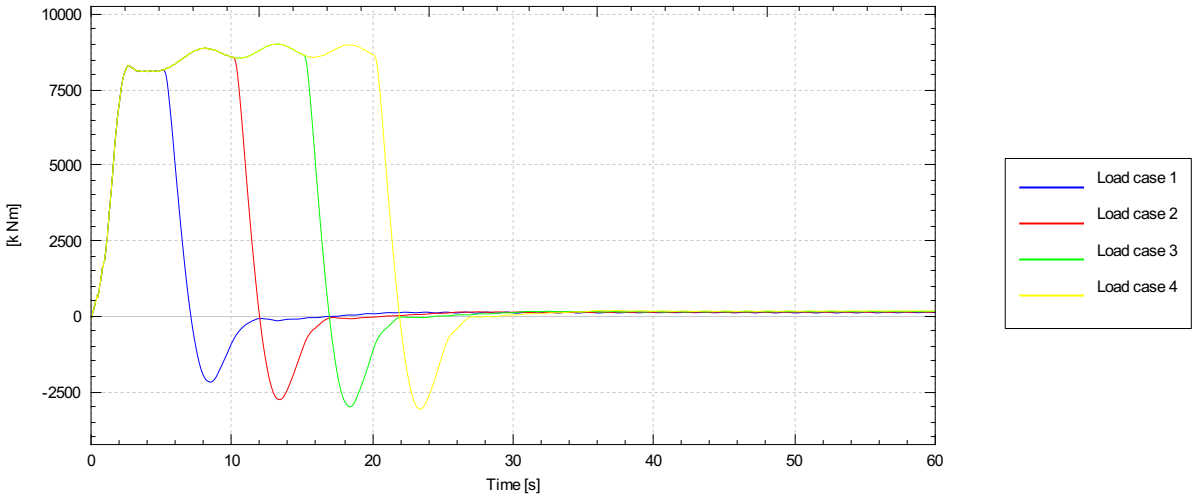
Root force (magnitude)



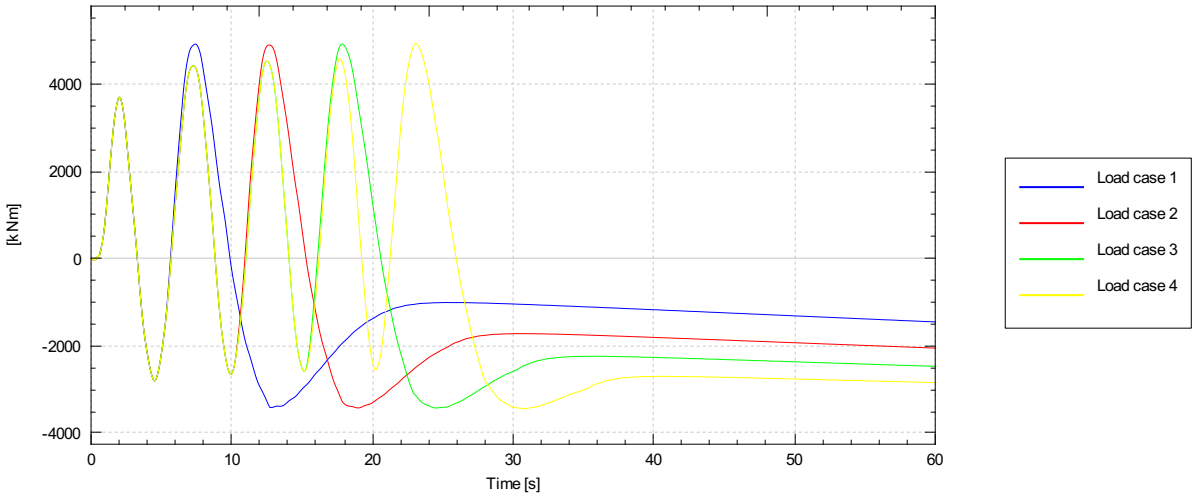
Root moment (magnitude)



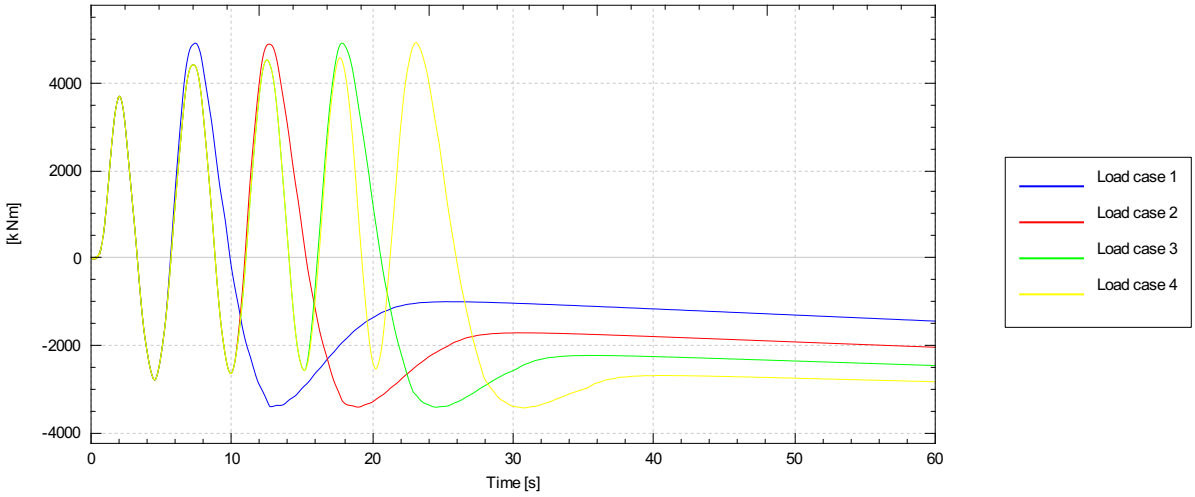
Root moment (out-of-plane)



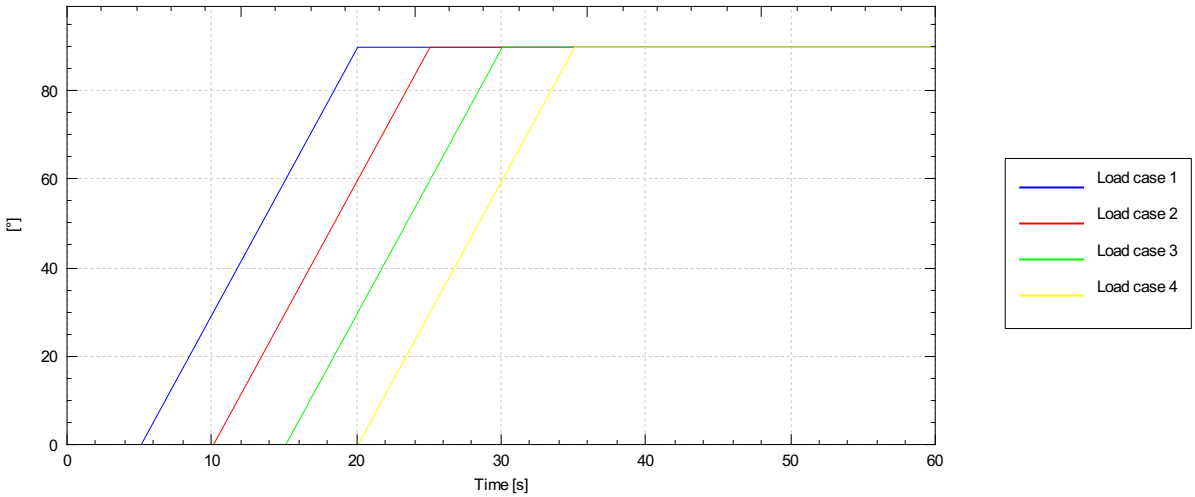
Root moment (in-plane)



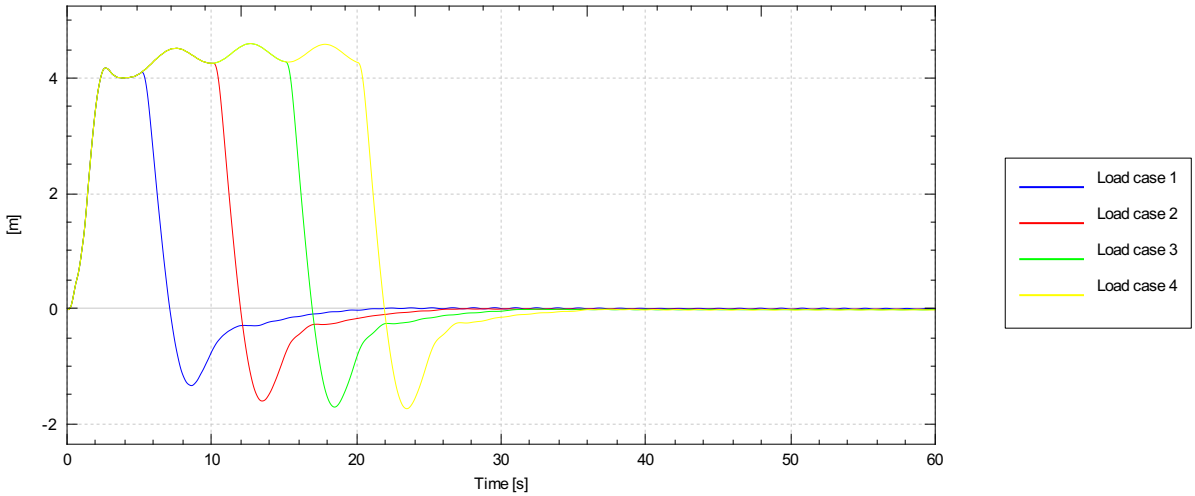
Root moment about shaft



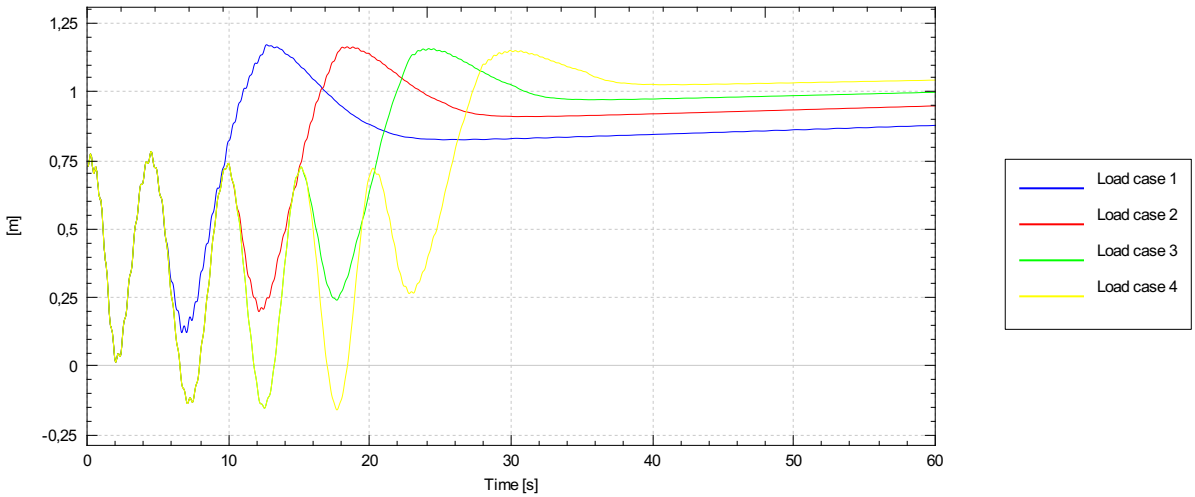
Pitch angle



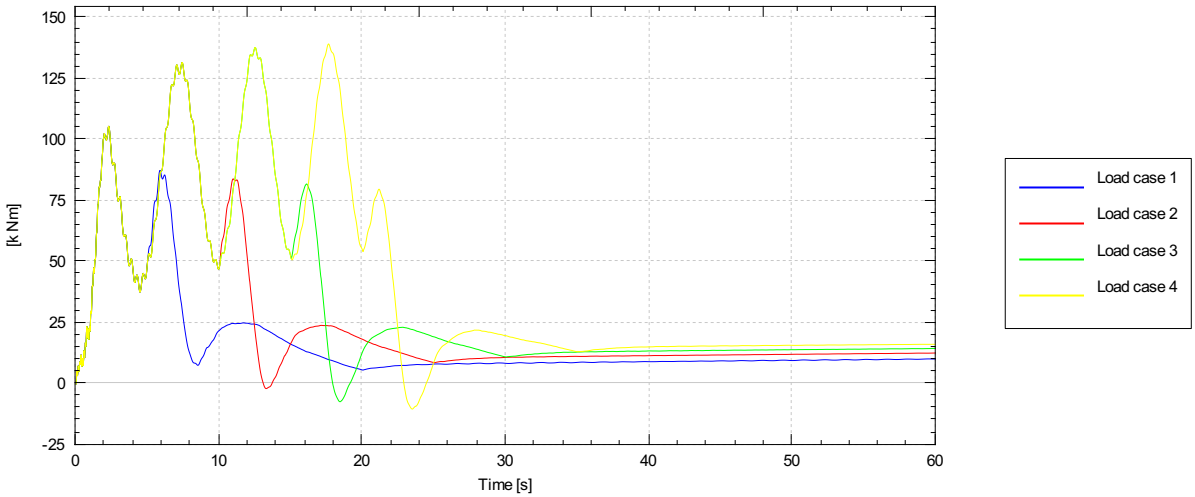
Tip deflection (out-of-plane)



Tip deflection (in-plane)

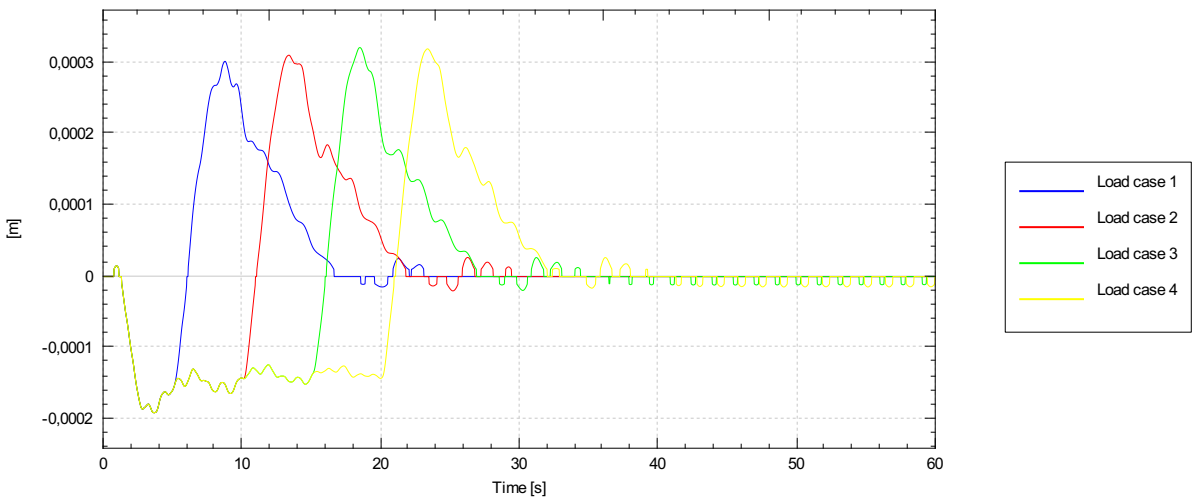


Root torque

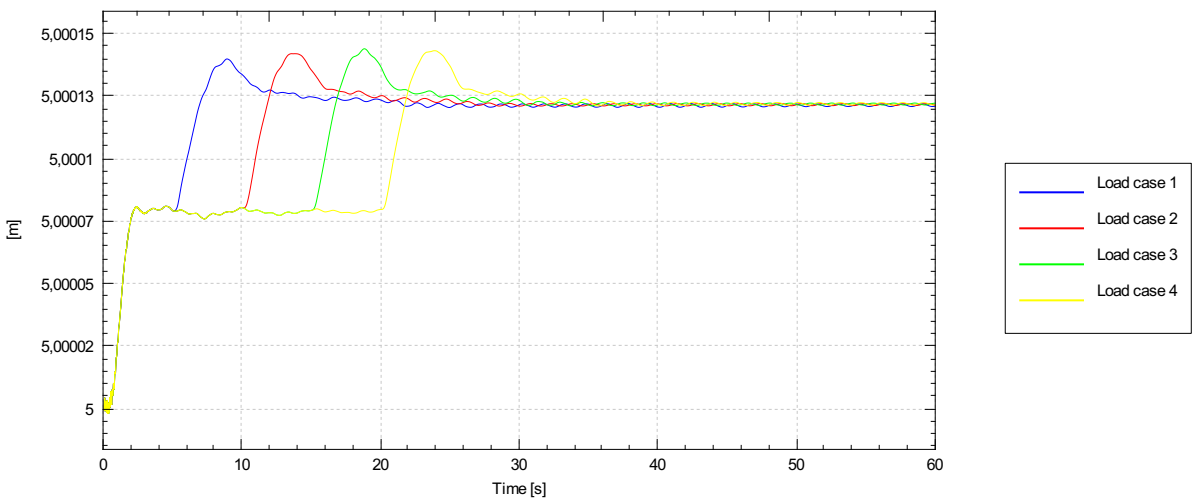


Sensor Node [Node Hub | Hub]

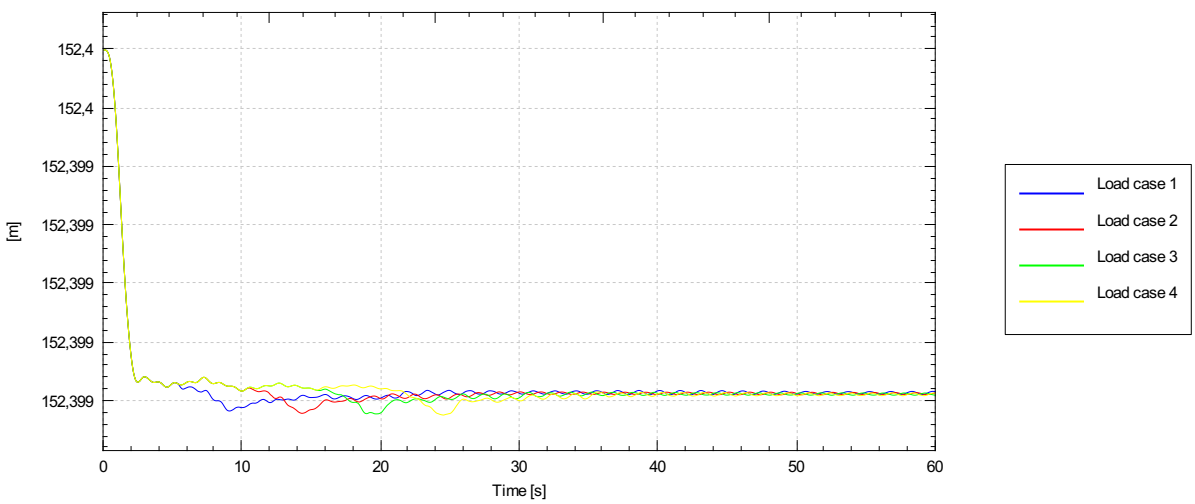
Position (x)



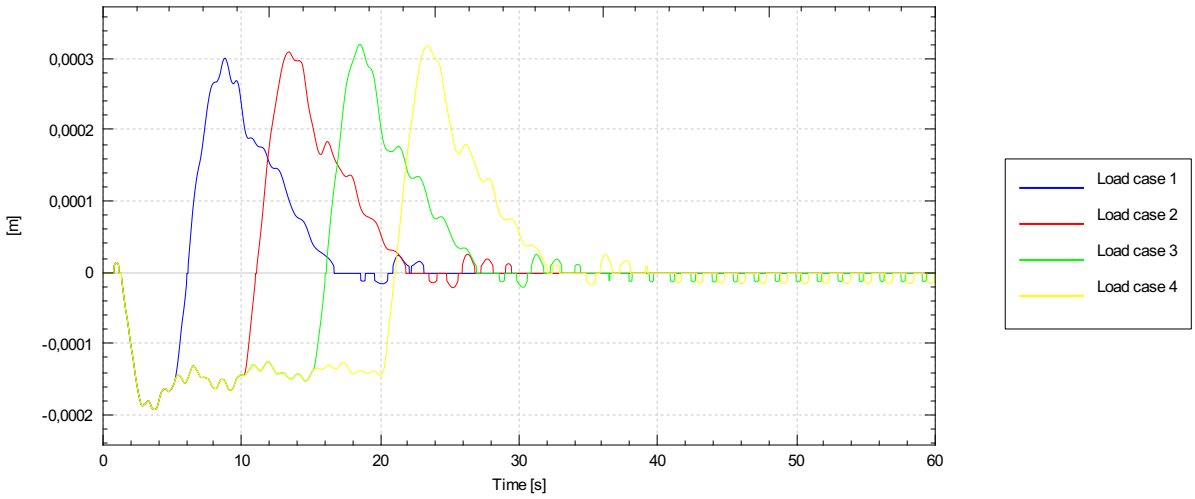
Position (y)



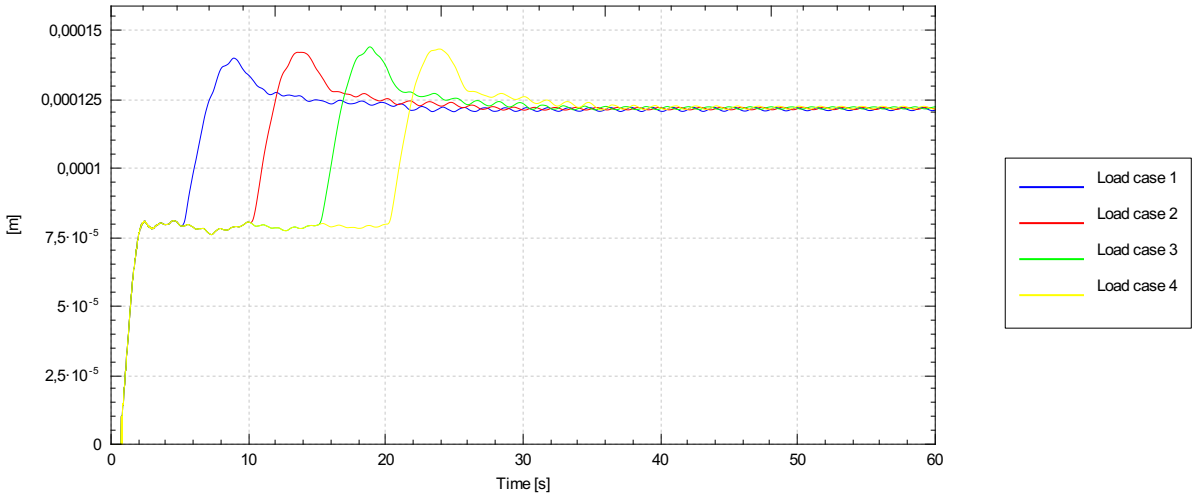
Position (z)



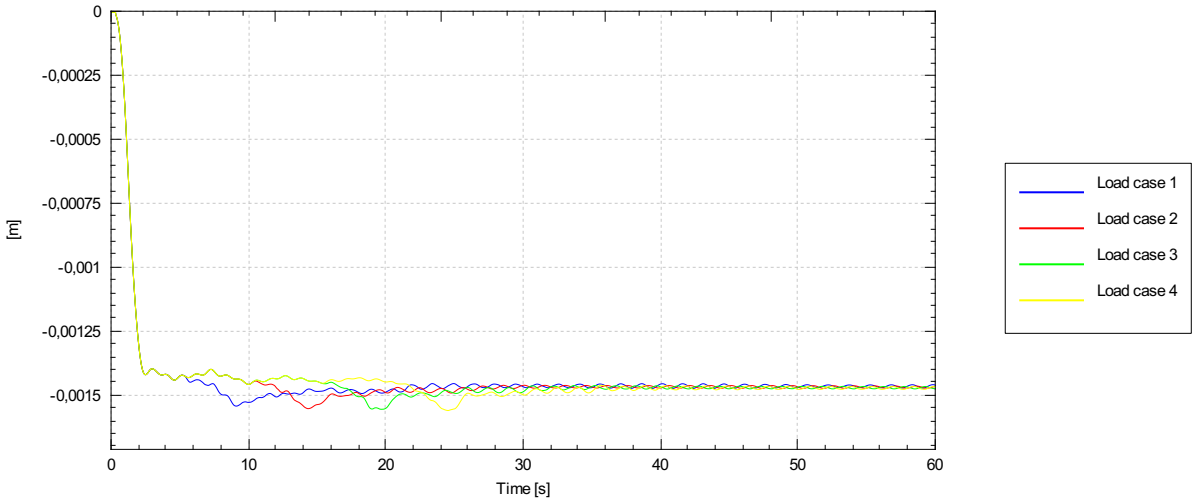
Displacement (u)



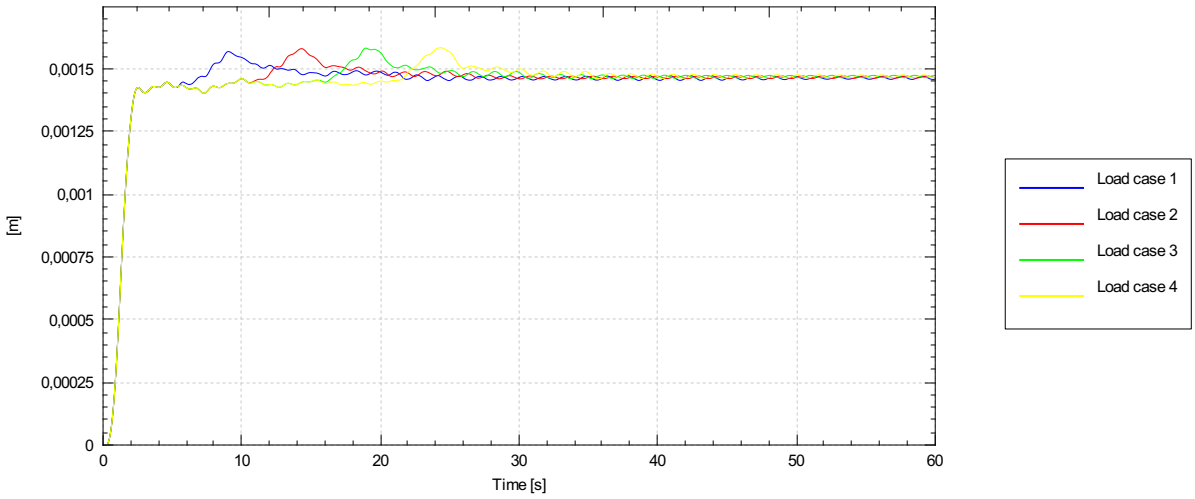
Displacement (v)



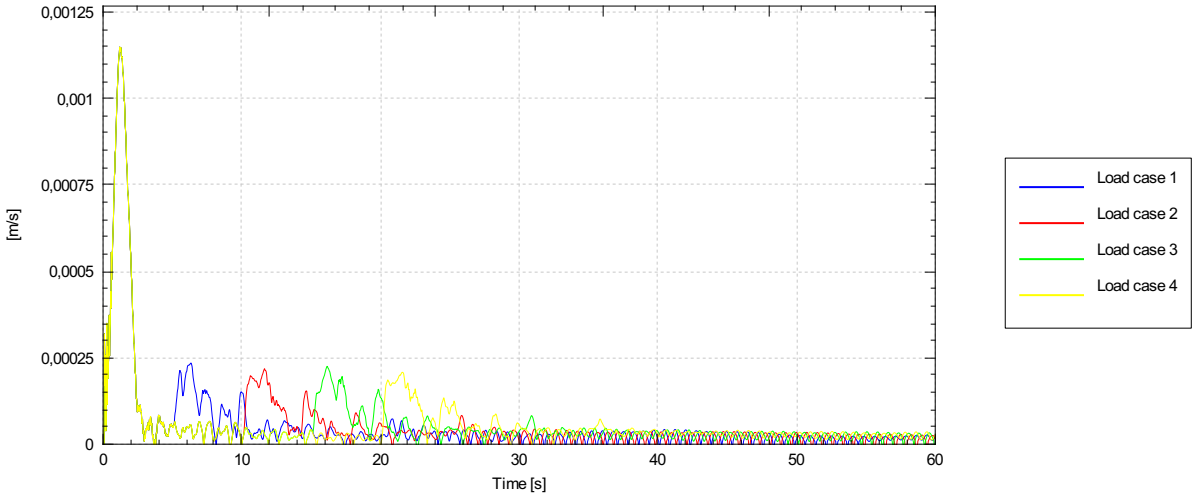
Displacement (w)



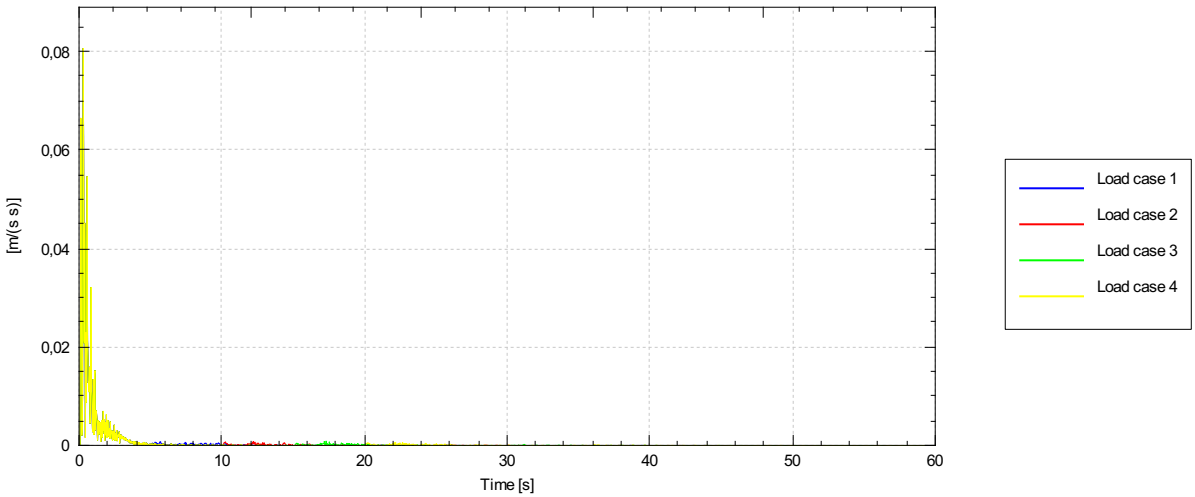
Displacement magnitude



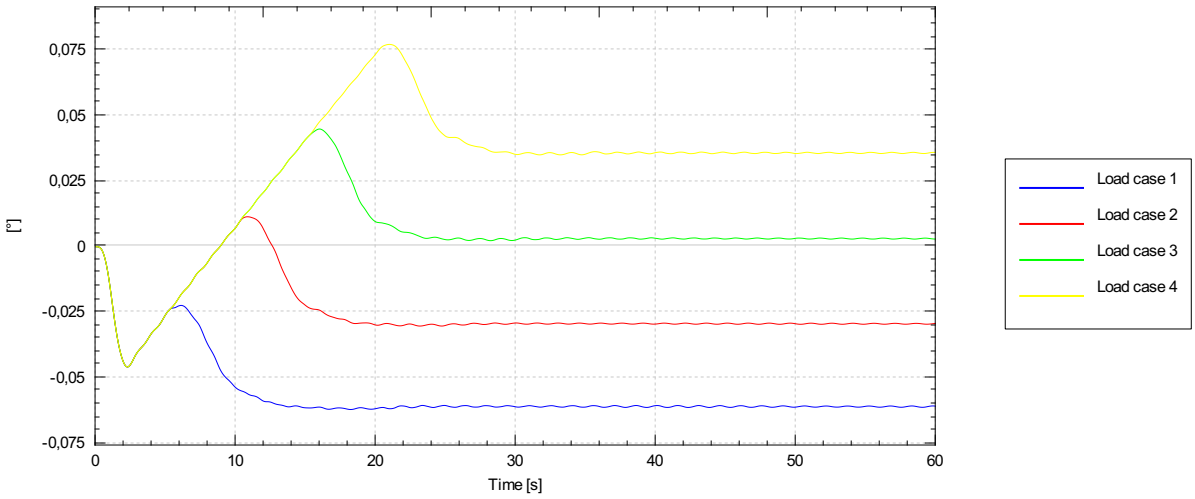
Speed



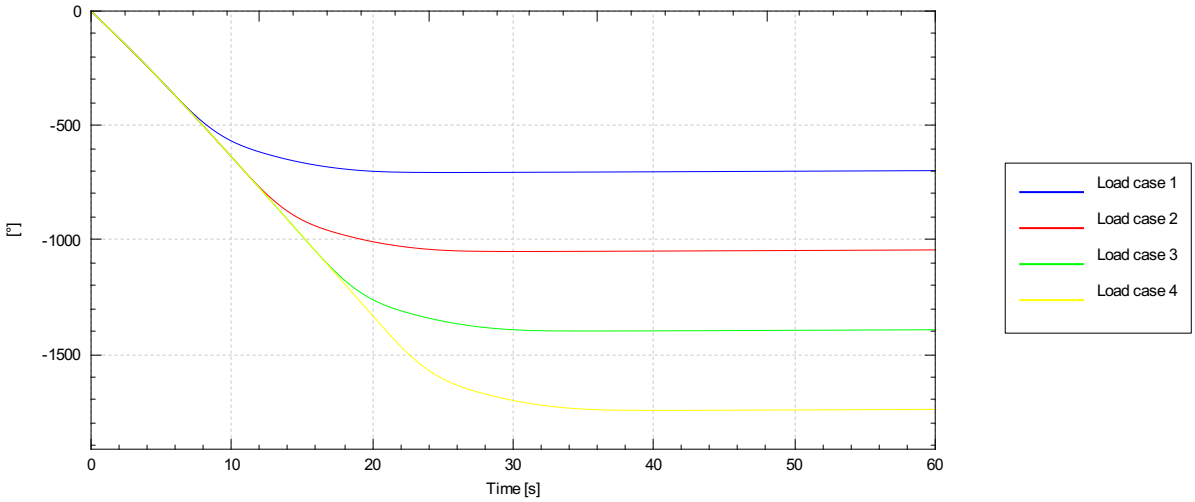
Acceleration, magnitude



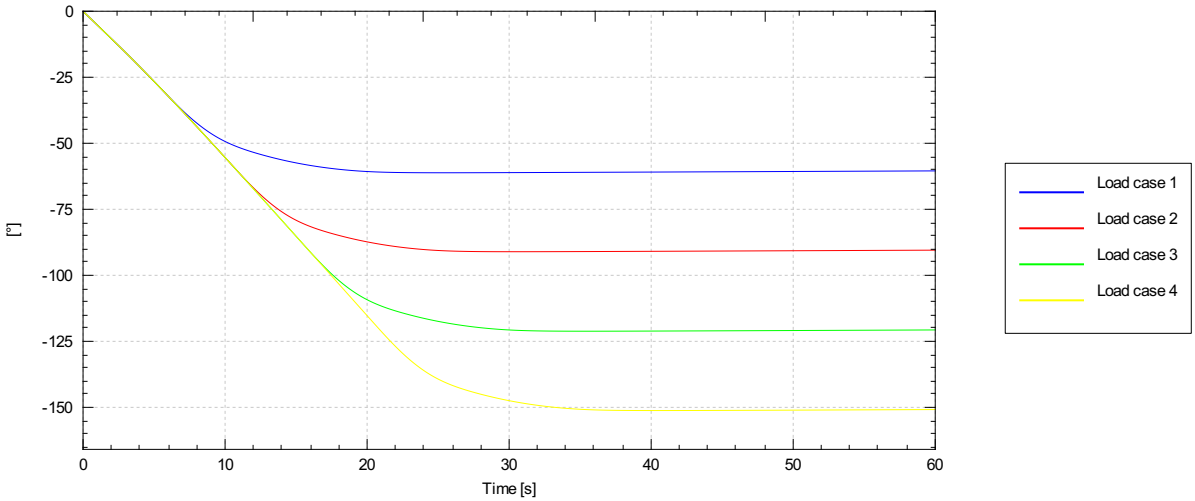
Rotational displacement (ru)



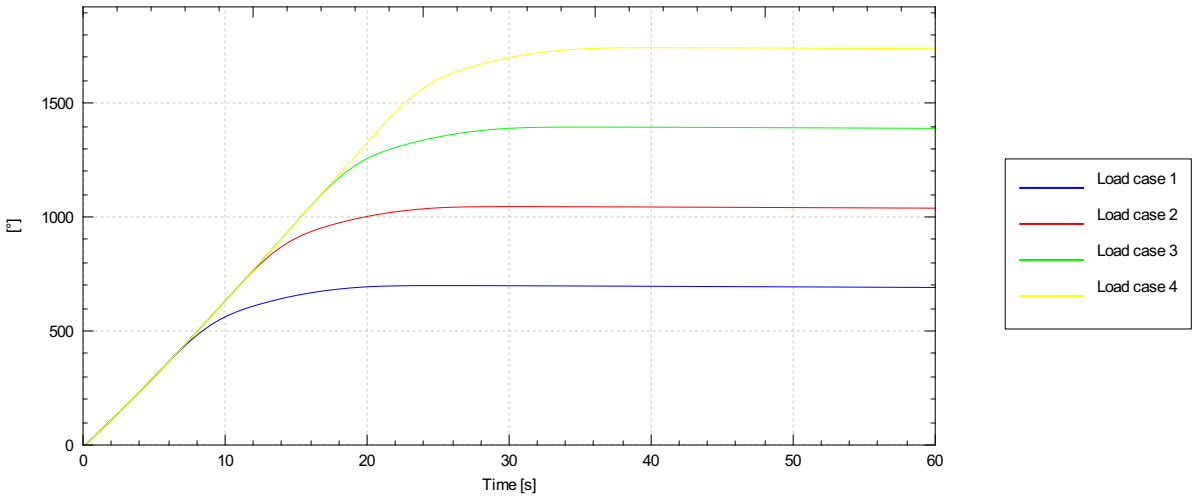
Rotational displacement (rv)



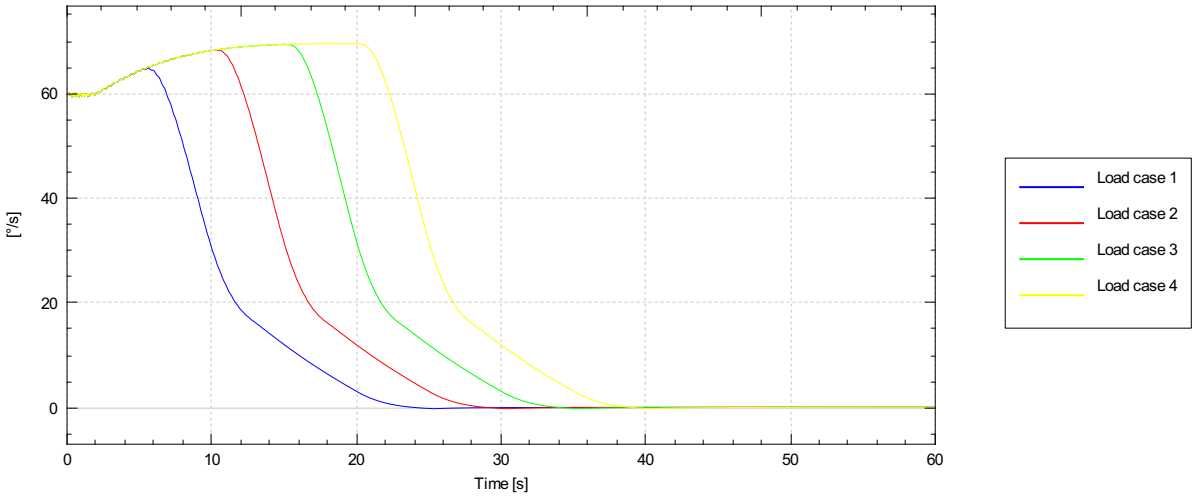
Rotational displacement (rw)



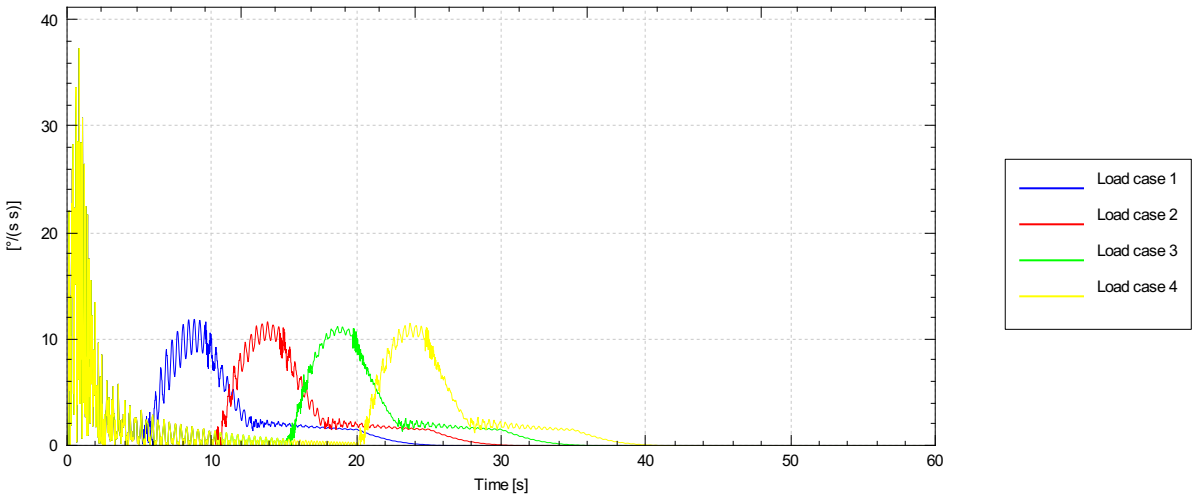
Rotational displacement magnitude



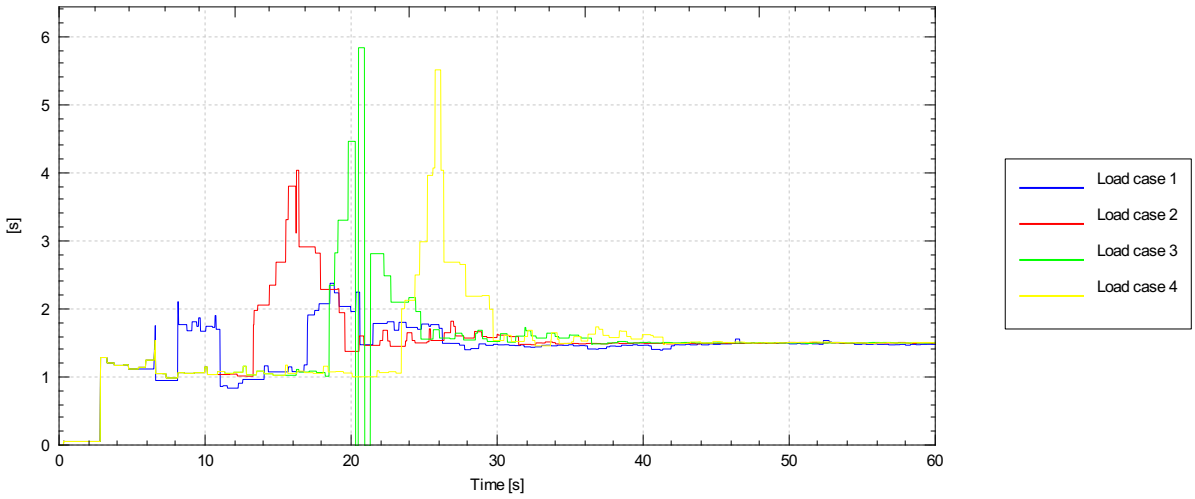
Rotational speed



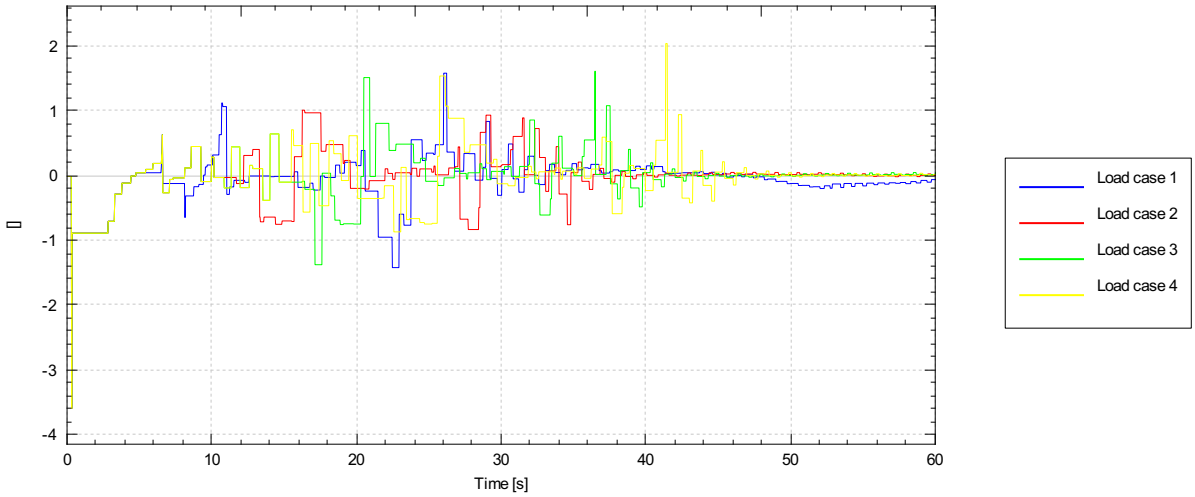
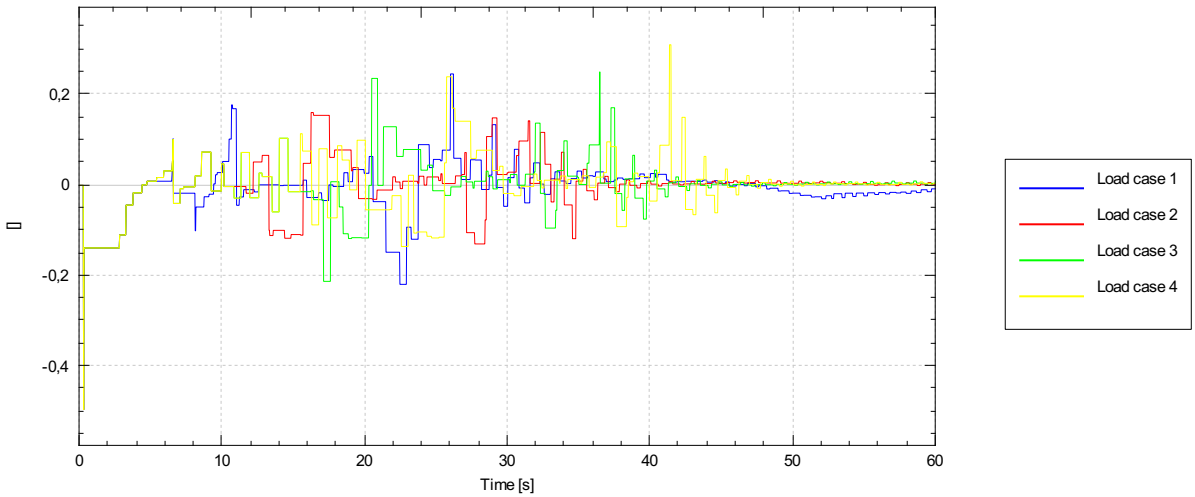
Rotational acceleration mag



Displacement period



Displacement logarithmic decrement



Displacement damping ratio