Supervisor meeting

Monday, 29th of February 2016

Generating Matlab Code (inputs/outputs)

- Simon will answer these questions.
- John will forward some Matlab code.

Parameters for Simulation

- The parameters are found on page 25 in the AAU^3 report.

Cubli Model

- Angle reference should be put on the drawings.
- **F** is not a torque but rather a translational force.
- Make complete correspondence between the two figures (concerning τ_{w} and τ_{m})
- Vector notation - specify that the full equation is provided, however the system will only be addressed around the z-axis.
- The components of **F** could have been in a positive direction to match conventions.
- Equation 1.12 - for the dot followed immediately by a minus, at least use a parenthesis.
- Specify in equation 3.2 that $\ddot{\theta}_{\mathrm{w}}$ is the angular acceleration with respect to the frame.
- We write: "Vector F is composed of two linear [...]", write instead: "[...] decomposed into two forces parallel to the two axes."
- Where we write: "To further investigate [...]" $\rightarrow$ The argument is instead that we want to put up Newtons 2nd law using [...] - too many words in what we write, be concrete.
- We write: "[...] composing the vector [...]". Write instead: "The vector is composed of [...]", or "constituting the vector".
- τ_{M} should have been τ_{m}.
- Vector cross product - scalar on left hand side and vector on the right hand side - can be fixed by using dot product.
- Verification of the model - Linear vs nonlinear - analysis of the model in time as well as in frequency domain.

Next Supervisor meeting

Monday, 7th of March at 13.30