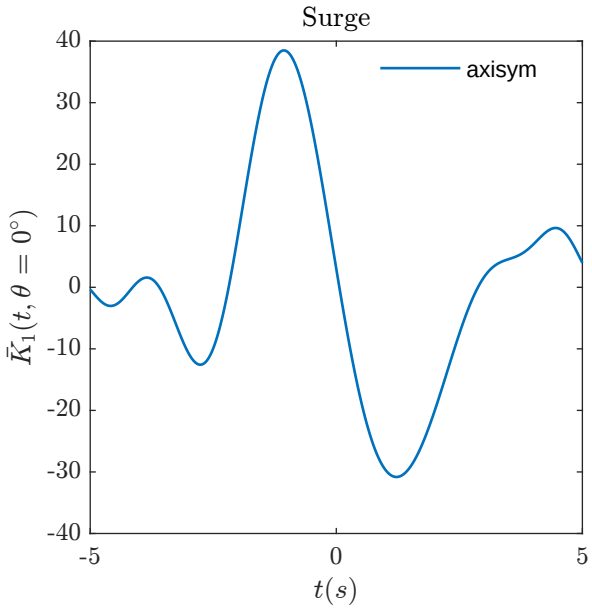
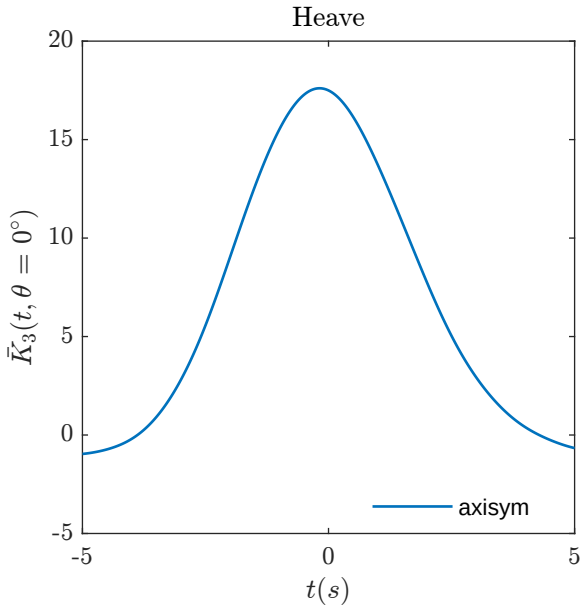
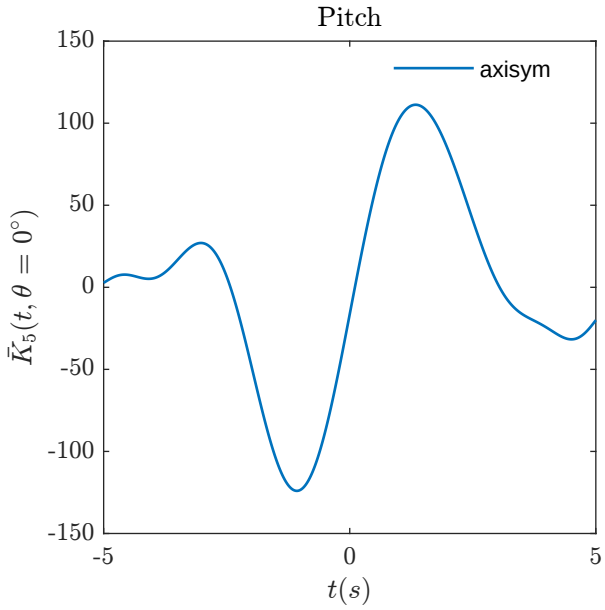
Normalized Excitation Impulse Response Functions: $\bar{K}_i(t) = \frac{1}{2\pi}\int_{-\infty}^{\infty} \frac{X_i(\omega,\theta)e^{i\omega t}}{\rho g} d\omega$







Notes:

- The IRF should tend towards zero within the specified timeframe. If it does not, attempt to correct this by adjusting the ω and t range and/or step size used in the IRF calculation.
- Only the IRFs for the first wave heading, surge, heave, and pitch DOFs are plotted here. If another wave heading or DOF is significant to the system, that IRF should also be plotted and verified before proceeding.