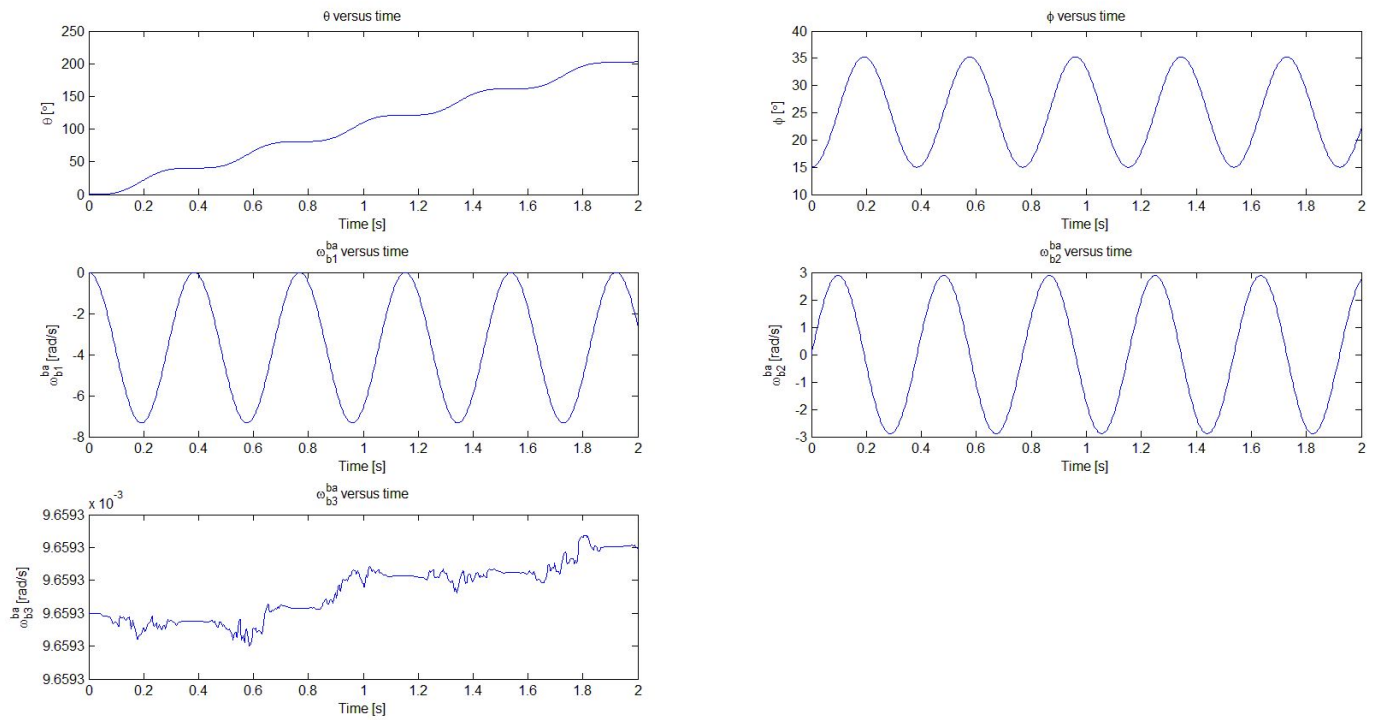
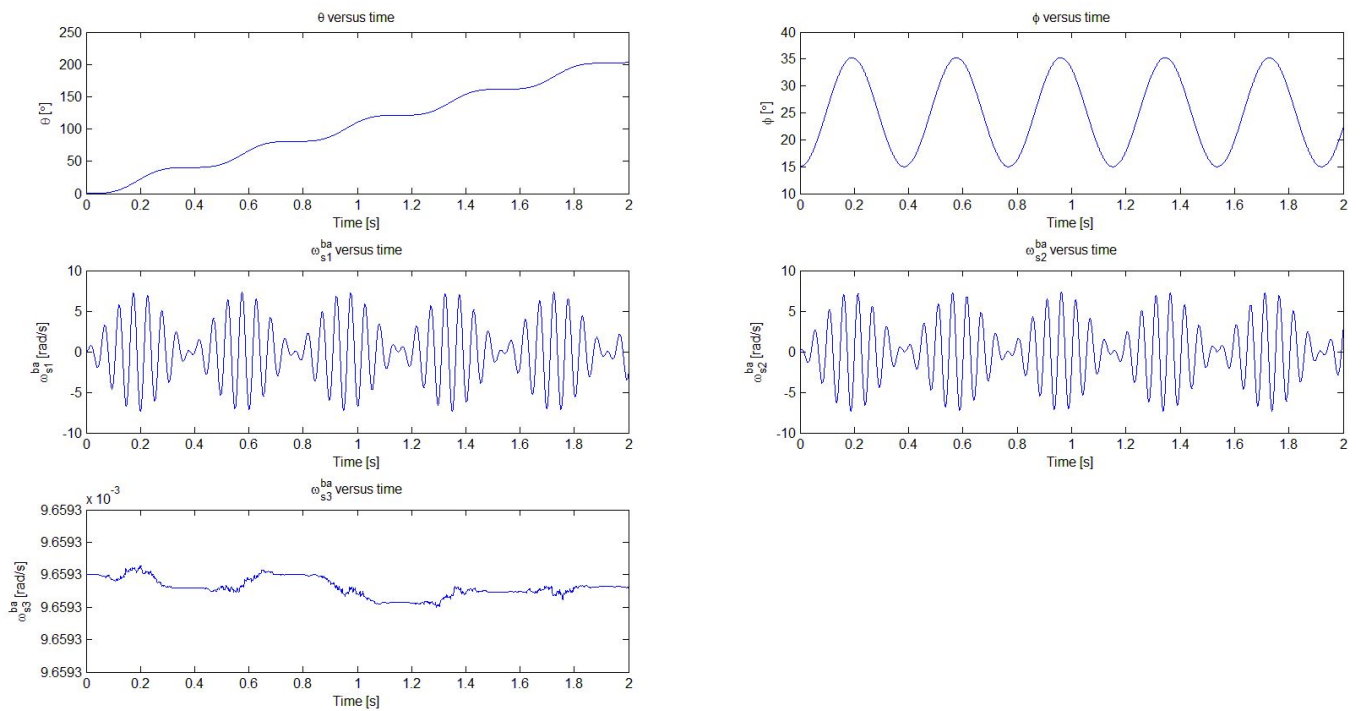


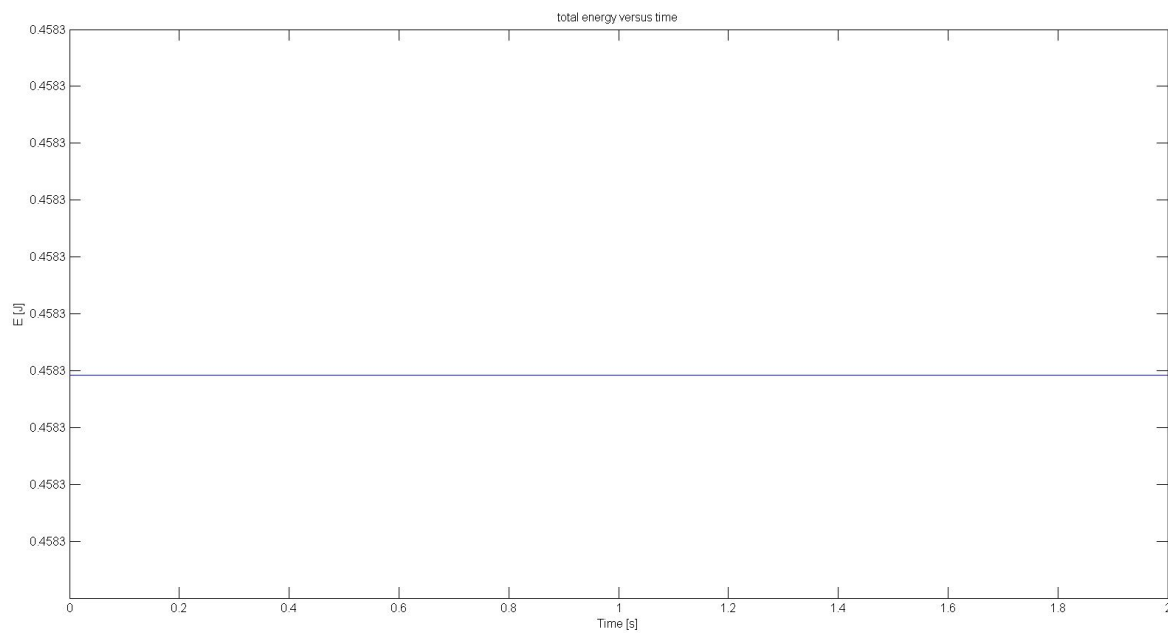
Results are:



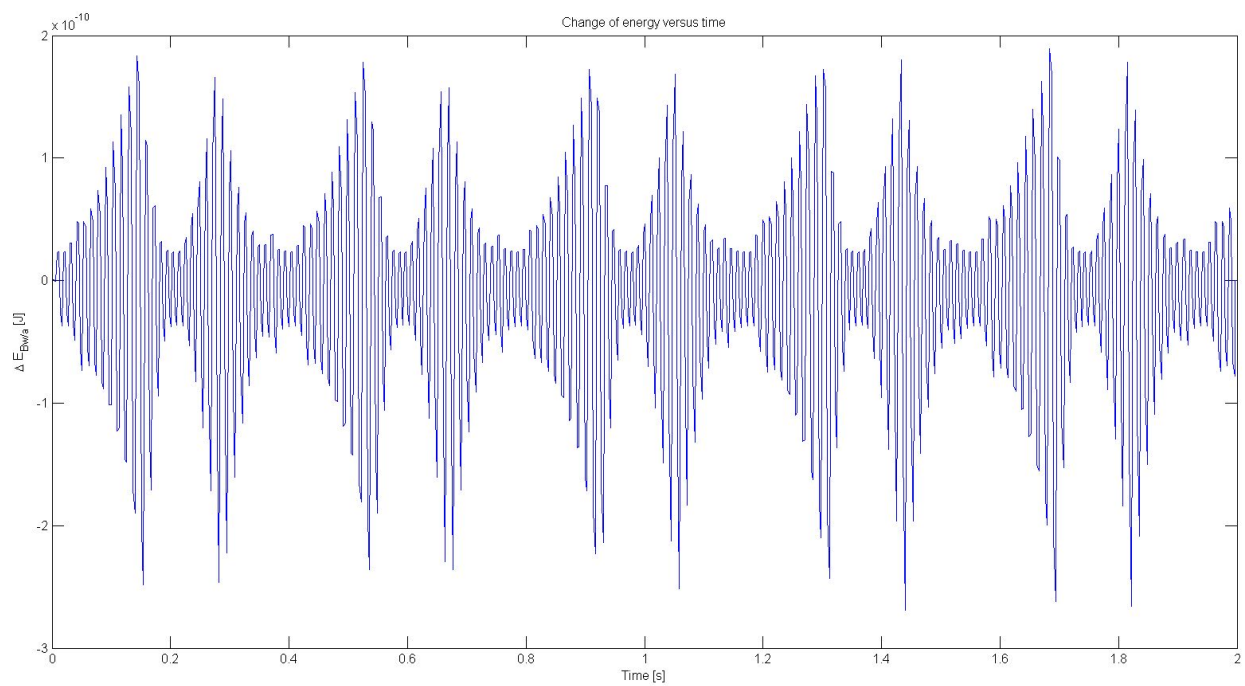
Resolve ω in frame s:



Total Energy versus time:



$\Delta E_{Bw/a}$ versus time:



We can see that the $\Delta E_{Bw/a}$ is less than $2e-10$, it is caused by numerical errors.