Homework #4

Course: 414.311A

Due on

December 3, 2013

1. Consider a circular cylinder falling horizontally through water with initial velocity u_0 . The cylinder has a diameter d, weight W, and length L.



2. We obtained the general form of force on a bottom-mounted cylinder in finite depth, using the Morrison equation. Now consider a truncated circular cylinder in deep water in a regular wave. Derive the general forms of the force $(F_I, F_D \text{ where } F = F_I + F_D)$ for the truncated of draft h in deep water.

