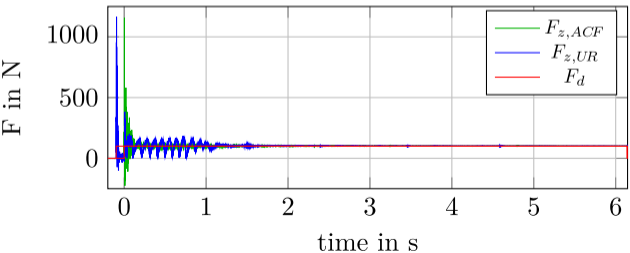


(a) $v_d = 0.10 \text{ m s}^{-1}$, $F_d = 100 \text{ N}$



(b) $v_d = 0.25 \text{ m s}^{-1}$, $F_d = 100 \text{ N}$