

Download Statistical Fluid Mechanics Volume I Mechanics Of Turbulence A M Yaglom

In , $w_0(\tau)$ is the time response of the system to a unit impulse applied at time 0 and $w_2(\tau)$ is the time response of the system to an impulse of twice unit magnitude at time 0. These response functions represent the memory of the system. If the system is linear, then $w_2 = 2w_0$ and $h_1 = w_0$, which is why the first-order kernel is referred to as the linear unit impulse response.