

Unit Impulse Response: Post-initial Conditions

Quiz: Let $w(t)$ be the solution to $m\ddot{x} + kx = \delta(t)$ with rest initial conditions. What is $\dot{w}(0^+)$?

Choices:

- a) $\dot{w}(0^+) = 0$
- b) $\dot{w}(0^+) = \omega_m$
- c) $\dot{w}(0^+) = k$
- d) $\dot{w}(0^+) = k/m$
- e) $\dot{w}(0^+) = 1/m$
- f) None of these.

Pick what you think is the correct choice and then look at the answer.

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