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Unit impulse excitation.  $m \ddot{u}(t) + c \dot{u}(t) + f u(t) = \frac{1}{\hat{\mu}} \delta(t - \hat{\mu})$ . Due to infinitesimal duration  $\hat{\mu}$ , during impulse damping and restoring forces are not activated. After impulse, the system performs a damped free vibration with initial conditions  $u(\hat{\mu}) = 0$ ,  $\dot{u}(\hat{\mu}) = 1/m$ , (change of momentum equal to applied force).

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