

Applied Numerical Methods With Matlab Solutions Manual

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1.1 You are given the following differential equation with the initial condition, $v(t=0) = 0$, $m \frac{dv}{dt} + c v = mg$. Multiply both sides by m/c . $g v^2 + c m \frac{dv}{dt} = m \frac{dv}{dt}$. Define $a = mg/c$. $a v^2 + dt \frac{dv}{c} = m \frac{dv}{dt}$. Integrate by separation of variables, $\int \frac{dv}{a - v} = \int \frac{dt}{m}$.

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