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1.1 You are given the following differential equation with the initial condition, $v(t=0) = 0$, $v 2 m c g dt dv = -d$. Multiply both sides by m/cd . $gv 2 c m dt dv c m dd = -$. Define $a = mg/cd$. $a 2 v 2 dt dv c m$. $d = -$. Integrate by separation of variables, $dt m c a v J dv = J d 2 - 2$.

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Applied Numerical Methods with MATLAB for Engineering and Science is the newest book by best-selling author Steve Chapra. The new text uses MATLAB as the primary computing environment and focuses on applications. Theory is included only when it has direct use to the student; i.e., when theory informs the concepts.

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