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Applied Numerical Methods with MATLAB is written for students who want to learn and apply numerical methods in order to solve problems in engineering and science. As such, the methods are motivated by problems rather than by mathematics.

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Solution Manual Applied Numerical Methods with Matlab

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

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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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