

Applied Numerical Methods With Matlab For Engineers And Scientists

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

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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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