

Applied Numerical Methods With Matlab Solutions Third Edition

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Solution Manual—Applied Numerical Methods with Matlab

1.1 You are given the following differential equation with the initial condition, $v(t=0) = 0$, $v \, 2 \, m \, c \, g \, dt \, dv \, =-d$. 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, $dt \, m \, c \, a \, v \, \int \, dv = \int d \, 2 \, -2$.

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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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