

Applied Numerical Methods With Matlab Solutions 3rd Edition

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1.1 You are given the following differential equation with the initial condition, $v(t=0) = 0$, $v^2 + m \frac{dv}{dt} = c$. Multiply both sides by $\frac{m}{c}$. $\frac{v^2}{c} + m \frac{dv}{dt} = 1$. Define $a = \frac{m}{c}$. $a \frac{v^2}{c} + m \frac{dv}{dt} = 1$. Integrate by separation of variables, $\int \frac{v^2}{c} + m \frac{dv}{dt} = \int 1 dt$

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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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