

## Applied Numerical Methods With Matlab Solutions Manual

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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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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  $m/cd$ .  $gv^2 \, c \, m \, dt \, dv \, c \, m \, dd = - \, \cdot$ . Define  $a = mg \, /cd$ .  $a^2v^2 \, dt \, dv \, c \, m \, d = - \, \cdot$ . Integrate by separation of variables,  $dt \, m \, c \, a \, v \quad dv = \, d^2 \, - \, 2$ .

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