

## 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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Steven Chapra's new text, Applied Numerical Methods with MATLAB for Engineers and Scientists, is written for engineers and scientists who want to learn numerical problem solving. Aimed at numerical methods users rather than developers, the text employs problems rather than mathematics to motivate readers.

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1.1 You are given the following differential equation with the initial condition, v(t= 0) = 0, v2 m c g dt dv =-d. Multiply both sides by m/cd. gv2 c m dt dv c m dd =-. Define a = mg /cd. a2v2 dt dv c m. d =-. Integrate by separation of variables, dt m c a v dv=d 2 -2.

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