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For example, here is a simple M-file to evaluate whether a grade is passing: function grader (grade) % grader (grade): % determines whether grade is passing % input: % grade = numerical value of grade (0-100) % output: % displayed message if grade >= 60 disp ('passing grade')...

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(b) The numerical solution can be implemented as
$$\begin{bmatrix} 0 \\ 2 \\ 19.62 \\ 68.1 \\ 12.5 \end{bmatrix} \begin{bmatrix} 2 \\ 0 \\ 9.81 \end{bmatrix} \begin{bmatrix} | \\ = \\] \end{bmatrix} \begin{bmatrix}] \\] \\] \end{bmatrix} \begin{bmatrix} [\\ [\\ [\end{bmatrix} v = + - (19.62) \begin{bmatrix} 2 \\ 6.2087 \\ 68.1 \\ 12.5 \end{bmatrix} \begin{bmatrix} 4 \\ 19.62 \\ 9.81 \end{bmatrix} \begin{bmatrix} | \\ = \\] \end{bmatrix} \begin{bmatrix}] \\] \\] \end{bmatrix} \begin{bmatrix} [\\ [\\ [\end{bmatrix} v = + -$$

The computation can be continued and the results summarized and plotted as:
t v dv/dt
0 0 9.81
2 19.6200 6.2087
4 32.0374 3.9294
6 39.8962 2.4869
8 44.8700 1.5739

Applied Numerical Methods

Solutions Manual to accompany Applied Numerical Methods With MATLAB for Engineers and Scientists

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