

Solving Dynamics Problems In Matlab

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The 'solve' command is a predefined function in MATLAB. The code for solving the above equations using the 'solve' command is as shown. Open a new M-File and type the following code. % To solve the linear equations using the solve command

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To see this, repeat the above for a spacing of 0.01 instead of 0.05. 32. INTRODUCTION TO MATLAB 33 Solving several equations simultaneously EDU» $\text{eqn1} = 'x^2+y^2=12'$ $\text{eqn1} = x^2+y^2=12$ EDU» $\text{eqn2} = 'x*y=4'$ $\text{eqn2} = x*y=4$ In the above we have defined two equations which we will now solve for the two unknowns, x and y.

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To motivate the ideas we first consider the solution of a model equation of the form $a(x,y)y_{xx}+b(x,y)y_{yy}+c(x,y)y_x+e(x,y)y_y+ f(x,y)y= g(x,y)$, say with Dirichlet boundary conditions in a rectangular domain. To obtain a numerical solution to this problem the first step is to choose an appropriate method and discretization.

Solving Fluid Dynamics Problems with Matlab

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