

Accessing dynamic response modeling app

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- First you need to have the CDF Player installed, This can be obtained from the Wolfram-Mathematica site at: <http://www.wolfram.com/cdf-player/>

- Then go to Nasser's web site and launch the app:

http://www.12000.org/my_notes/mma_demos/single_degree_of_freedom_responses/index.htm

Move down past the introduction – to the rectangular processing area.

- input values are set in the upper left hand side box and include:
 - damping c
 - stiffness K
 - initial displacement $u(0)$
 - initial velocity $v(0)$
 - mass m
 - amplitude of a loading function F (set to 0 for free vibration case)
- additional input in the second box from top:
 - beta ratio for a harmonic loading function
 - check bullet if you want a step load function
- at top of plot on right hand side you can select the kind of plot you wish to see, “excitation with response” might be a good choice