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### Dynamics of Structures, 1993, Ray William Clough, Joseph ...

A minimal, nonlinear oscillator model is analyzed for the Madden-Julian oscillation (MJO) "skeleton" (i.e., its fundamental features on intraseasonal/planetary scales), which includes the following: (i) a slow eastward phase speed of roughly 5 m s<sup>-1</sup>, (ii) a peculiar dispersion relation with dω/dk = 0, and (iii) a horizontal quadrupole vortex structure.

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Structural Analysis IV Chapter 5 - Structural Dynamics 5 Dr. C. Caprani 5.1.2 An Initial Numerical Example If we consider a spring-mass system as shown in Figure 1.3 with the properties m = 10 kg and k = 100 N/m and if give the mass a deflection of 20 mm and then release it (i.e. set it in motion) we would observe the system oscillating as shown in Figure 1.3.

### Chapter 5 - Structural Dynamics

Problem 1.17 A heavy rigid platform of weight w is supported by four columns, hinged at the top and the bottom, and braced laterally in each side panel by two diagonal steel wires as shown in Fig ...