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Solution: Given: $T = \frac{2\pi}{\omega} = \frac{2\pi}{2} = \pi = 3.14$ sec (a) $k = \frac{mg}{\delta} = \frac{200 \times 9.81}{0.01} = 196200$ N/m (b) 1. Determine the weight of the table. Taking the ratio of Eq. (b) to Eq. (a) and squaring the result gives $2 \sqrt{\frac{196200}{196200}} \times 0.75 = 1.5$ T n | $m = \frac{W}{g} = \frac{1.5 \times 9.81}{9.81} = 1.5$ kg

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Various analytical and numerical methods are available for solving the vibration equations in structural dynamics. In this paper modified differential transform method (MDTM) as a semi-analytical approach is generalized for the system of differential equations and is utilized for solving the vibration equations of MDOF systems.

Modified Differential Transform Method for Solving ...

H. Ahmadian's research interests are Model Updating, Inverse Eigenvalue Problems, Structural Dynamics and Finite Element Modeling. His contributions on Model Updating, where measured modal test ...