

# Untitled-1

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## 1 The Eigenmodes

We write the equation of motion in matrix form as, , a second-order system.

$$\begin{bmatrix} -\omega_0^2 & 0 & 0 & 0 & 0 & 0 & 0 \\ 2\omega_0^2 & -\omega_0^2 & 0 & 0 & 0 & 0 & 0 \end{bmatrix}$$