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We can also guess the solutions. For example, if we set $\eta_1 = -\eta_3$ and $\eta_2 = 0$, then $\eta_1(t) = \eta_1(0)\cos(\lambda_1 t + \theta_0)$. The other eigenmode corresponds to a motion with $\eta_1 = \eta_3$ and $2m\eta_1 = -M\eta_2$, in which case we get $\eta_1(t) = \eta_1(0)\cos(\lambda_2 t + \theta_0)$. The most general motion is a combination of the three eigenmodes, $\eta(t) = a_1$.

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Classical Mechanics is a textbook about that subject written by Herbert Goldstein, a professor at Columbia University. Intended for advanced undergraduate and beginning graduate students, it has been one of the standard references in its subject around the world since its first publication in 1951.

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