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Solving Structural Vibration Problems . Structural Vibration Problems Using ODS Analysis. 37th . th Turbomachinery Symposium. Turbomachinery Symposium September 8-11, 2008. Presented by: Maki M. Onari & Eric J. Olson. Mechanical Solutions, Inc. Whippany, NJ 07981 USA Tel: (973) 326-9920

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Example: Modes of vibration and oscillation in a 2 mass system; Extending to an $n \times n$ system; Eigenvalue/Eigenvector analysis is useful for a wide variety of differential equations. This page describes how it can be used in the study of vibration

problems for a simple lumped parameter systems by considering a very simple system in detail.

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To solve vibration problems, we always write the equations of motion in matrix form. For an undamped system, the matrix equation of motion always looks like this where x is a vector of the variables describing the motion, M is called the 'mass matrix' and K is called the 'Stiffness matrix'

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