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gear rattling and whining

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The solution in this other form is also correct, but is difficult to visualize. The solution is plotted in the figure. The behavior of vibrating systems will be discussed in more detail later in this course, but it is worth noting some features of the solution: 1. The average position of the mass is .

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The formulation and solution of rigid body dynamics is an important tool in the computer simulation of mechanical systems. Kinematics of machines. The dynamic analysis of a machine requires the determination of the movement, or kinematics, of its component parts, known as kinematic analysis.

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Intermediate Dynamics description:

Review of basic dynamics,
transformation of coordinate systems,
rotating coordinate systems, Lagrange
methods, Euler's equations, and

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