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22.451 Dynamic Systems – Chapter 4 Mechanical Systems Peter Avitabile Mechanical Engineering Department University of Massachusetts Lowell j ... The response of a mechanical system due to an initial displacement is given as: The exponential response envelope is $t \geq 0$ $e^{-\zeta \omega_n t} X \dots$

Dynamic Systems Mechanical Systems 031906

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Introduction In order to analyze a complex dynamic mechanical system it is essential to first understand the properties of the simplest possible dynamic mechanical system: a system with only one degree of freedom (DOF).

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