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Modeling and Analysis of Dynamic Mechanical Systems

Definitions: Modeling and Analysis of Dynamic Systems Dynamic Systems systems that are not static, i.e., their state evolves w.r.t. time, due to: input signals, external perturbations, or naturally. For example, a dynamic system is a system which changes: its trajectory → changes in acceleration, orientation, velocity, position.

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Details about Modeling and Analysis of Dynamic Systems: The input is $x_2(t)$, the displacement of the left edge of M_2 . Write the equation governing the motion of M_1 . Write an expression for the force f_2 , positive sense to the right, that must be applied to M_2 in order to achieve the displacement $x_2(t)$.

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System dynamics - Wikipedia

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