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Modeling Mechanical and Hydraulic Systems in Simscape

An excavator manipulator is comprised of kinematically operating mechanical links and a hydraulic system. There exist two main

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approaches in modeling the mechanical and hydraulic systems: mathematical modeling and simulation modeling using commercially available software tools. This paper starts with a review on kinematic and dynamic modeling of the mechanical linkage, and, then, various modeling approaches on hydraulic systems will be

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Translational mechanical systems move along a straight line. These systems mainly consist of three basic elements. Those are mass, spring and dashpot or damper. If a force is applied to a translational mechanical system, then it is opposed by opposing forces due to mass, elasticity and friction of the system.

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Since the applied force and the opposing forces are in opposite directions, the algebraic sum of the forces acting on the system is zero.

Modelling of Mechanical Systems -
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The prevalent use of fluid (hydraulic) circuitry in machines tool applications, aircraft control systems, and similar operations occurs because of such factors such as accuracy, flexibility, fast starting and stopping, simplicity of operation, and high horsepower-to-weight ratio.

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Modeling Fluid Systems - Engineering

The modeling of mechanical systems in general has reached a fairly high level of maturity, being based on classical methods rooted in the Newtonian laws of motion.

One bene?ts from the extensive and

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Overwhelming knowledge base developed to deal with problems ranging from basic mass-spring systems to complex multibody systems.

Chapter 9: Modeling of Mechanical Systems for Mechatronics ...

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Lecture 18: System Model of Electro
Mechanical Systems; Lecture 19: System
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the 1st order system; Lecture 22: Dynamic
response of 2nd order system; Lecture
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System; Lecture 24: System Transfer
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Mathematical Modelling of Control
System There are various types of physical

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Systems, namely we have: Mechanical systems Electrical systems Electronic systems Thermal systems Hydraulic systems Chemical systems First off we need to understand – why do we need to model these systems in the first place? Mathematical modeling of a...

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mechanics; dynamic systems and control; hydraulic valves, pumps, and actuators; auxiliary components; and both valve and pump controlled hydraulic systems.

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The conceptive easiest way to model a hydraulic system is to identify all important components, e. g. pump, valves, orifices, cylinders, motors, etc. connect their models according to the circuit diagram and place a lumped volume at each node, the connection of two or more components.

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Mechanical System Modeling K. Craig 83
Mechanical System Examples Problem
Statement Develop the equivalent
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gear system shown. The applied torque T is the input variable, and the angular displacement θ is the output variable.

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- 30 • The damper element can also be used to represent unavoidable parasitic energy dissipation effects in mechanical systems.
 - Frictional effects in moving parts of machines
 - Fluid drag on vehicles (cars, ships, aircraft, etc.)
 - Windage losses of rotors in machines

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Mechanical System Elements

An excavator manipulator is comprised of kinematically operating mechanical links and a hydraulic system. There exist two main approaches in modeling the mechanical and hydraulic systems: mathematical modeling and simulation modeling using

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