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Dry Clutch Control for Automotive Applications will be essential reading for automotive engineers working on model design and contains much to interest the academic researcher with its combination of theoretical results and application in the important and widely studied field of automotive engineering and control.

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The comfort of a car as perceived by the driver can be as important to its commercial success as its performance and fuel efficiency. Modern engines deliver increased torque and there is a current trend to reduce transmission-shaft stiffness, both phenomena militating against maintaining, let alone increasing, ride comfort. Dry Clutch Control for Automotive Applications analyses the control of ...

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Control of the dry clutch engagement process for automotive application is considered. A linear quadratic state feedback controller is obtained by solving a finite time horizon optimal control problem. The engine torque and the load torque are

(PDF) Engagement control for automotive dry clutch | Luigi ...

A clutch is a mechanical device which engages and disengages power transmission especially from driving shaft to driven shaft. In the simplest application, clutches connect and disconnect two rotating shafts. In these devices, one shaft is typically attached to an engine or other power unit while the other shaft provides output power for work. While typically the motions involved are rotary, linear clutches are also possible. In a torque-controlled drill, for instance, one shaft is driven by a m

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The paper proposes a dynamic model of an automotive dry dual clutch system, which comprises submodels of a lever-based electromechanical actuator and a dual clutch assembly. The model is developed by using the bond graph approach, and it can be used for clutch design, analysis, and control tasks.

Modeling of a Dry Dual Clutch Utilizing a Lever-Based ...

Single and dual dry clutches are widely used in automotive transmissions because of their reliability and efficiency paired with low fuel consumption and reduction of pollutant emissions. A prerequisite to attain these goals in automated manual transmissions is the adoption of a “good” clutch model and the design of a robust control strategy.

A survey on modeling and engagement control for automotive ...

Our clutch sensors are used in vehicle applications such as

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Concentric Slave Cylinder (CSC) and clutch slave cylinder position, rotary clutch pedal and Clutch Master Cylinder (CMC) position, and Dual Clutch Transmission (DCT) travel.

SENSORS FOR AUTOMOTIVE APPLICATIONS | TE Connectivity

A dry clutch model with thermal dynamics is added to a driveline model of a heavy-duty truck equipped with an automated manual transmission. The model captures driveline oscillations and can be used to simulate how different clutch-control strategies affect vehicle performance, drivability and comfort.

The Effect of Thermal Expansion in a Dry Clutch on Launch ...

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It can handle torque inputs of up to 350 N·m (260 lb·ft), making it the highest-torque dry-clutch application. Its weight of 81 kg (179 lb), including oil and transmission control unit, its three-shaft architecture, especially axially, means it can be installed in several types of B- and C-segment vehicles.

Dual-clutch transmission - Wikipedia

The main contribution of control technology in automotive powertrain system is that, it enables the whole powertrain system to be precisely controlled; thereby, improving the overall vehicle powertrain performance and sustainability. This paper describes a proportional-integral-derivative (PID) controller

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development for an electro-mechanical friction clutch (EMFC) system for automotive ...

[PDF] PID control of an electro-mechanical friction clutch

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Robust control/scheduling co-design: application to robot control, in: RTAS'05 IEEE Real-Time and Embedded Technology and Applications Symposium, San Francisco, march 2005. [103] D. Simon , O. Sename , D. Robert .

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