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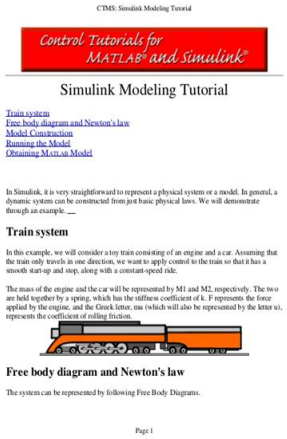

CTMS: Simulink Modeling Tutorial

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Simulink Modeling Tutorial

Train system
Free body diagram and Newton's law
Model Construction
Running the Model
Obtaining MATLAB Model

In Simulink, it is very straightforward to represent a physical system or a model. In general, a dynamic system can be constructed from just basic physical laws. We will demonstrate through an example ...

Train system

In this example, we will consider a toy train consisting of an engine and a car. Assuming that the train only travels in one direction, we want to apply control to the train so that it has a smooth start-up and stop, along with a constant-speed ride.

The mass of the engine and the car will be represented by M1 and M2, respectively. The two are held together by a spring, which has the stiffness coefficient of k. F represents the force applied by the engine, and the Greek letter, mu (which will also be represented by the letter u), represents the coefficient of rolling friction.

Free body diagram and Newton's law

The system can be represented by following Free Body Diagrams.

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