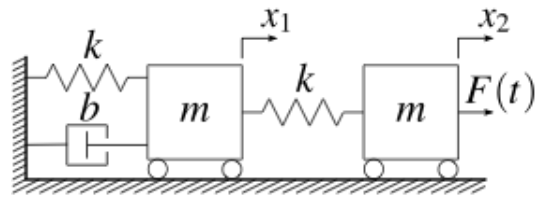
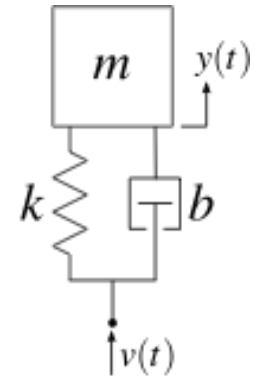


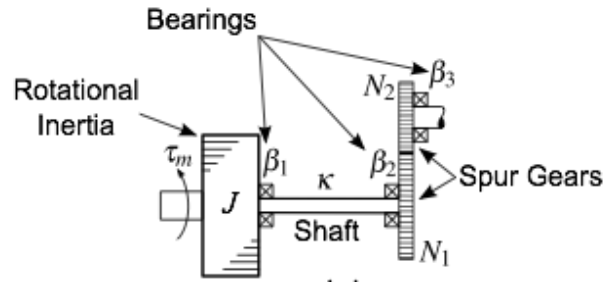
Mechanical Translation Example 1



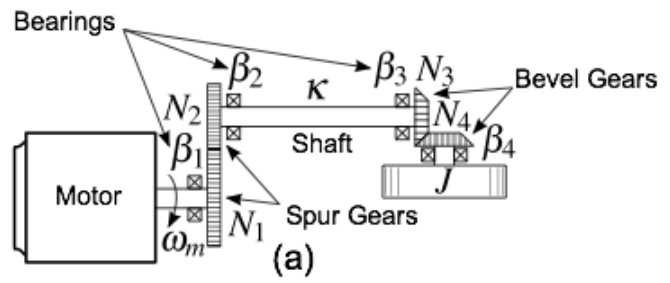
Mechanical Translation Example 2



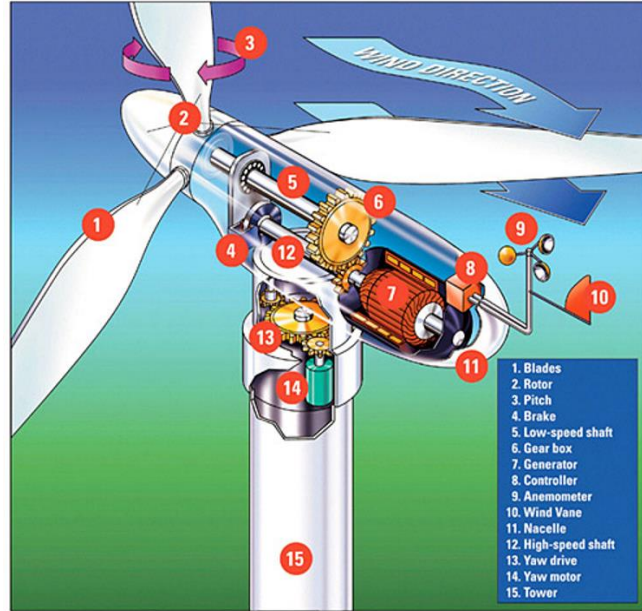
Mechanical Rotation Example 1



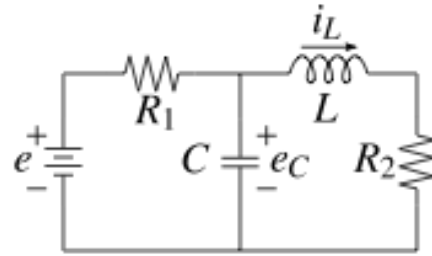
Mechanical Rotation Example 2



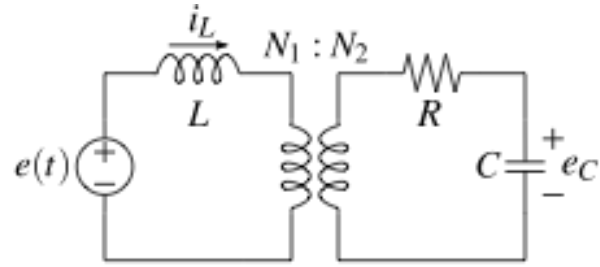
Challenge Problem: Wind Turbine Bond Graph Synthesis



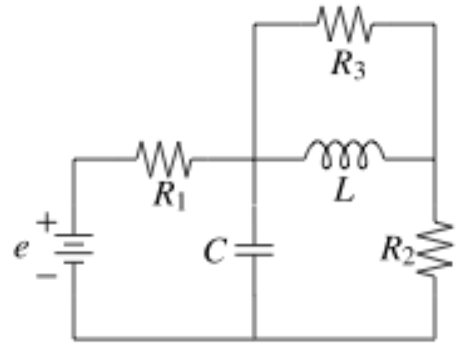
Electrical Circuits Example 1



Electrical Circuits Example 2

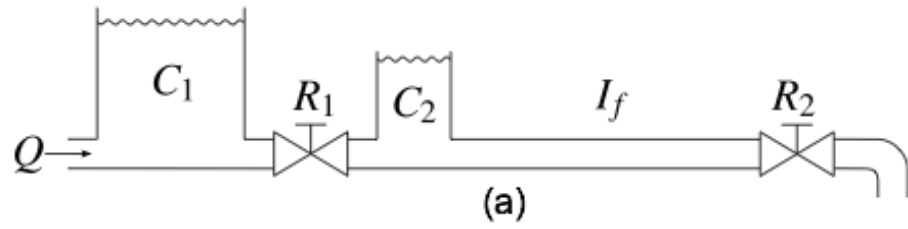


Electrical Circuits Example 3

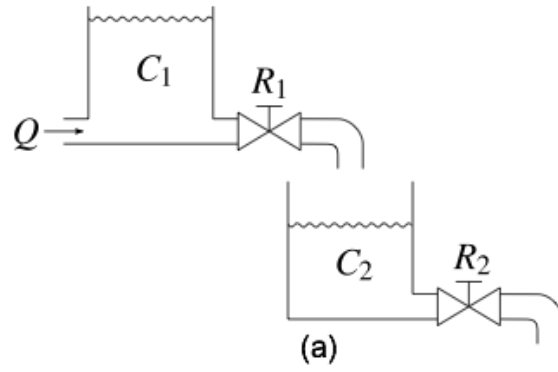




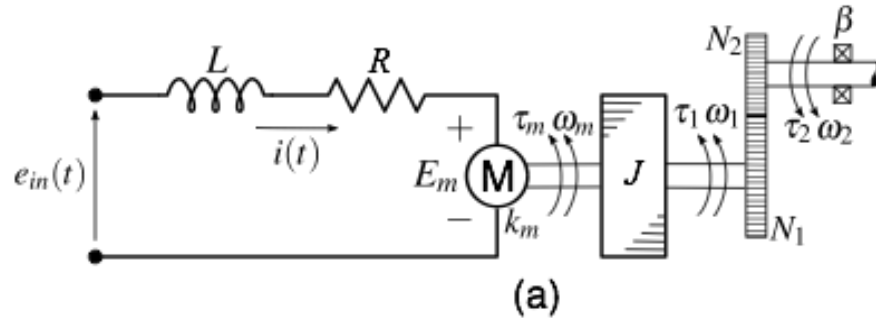
Hydraulic Circuit  
Example 1



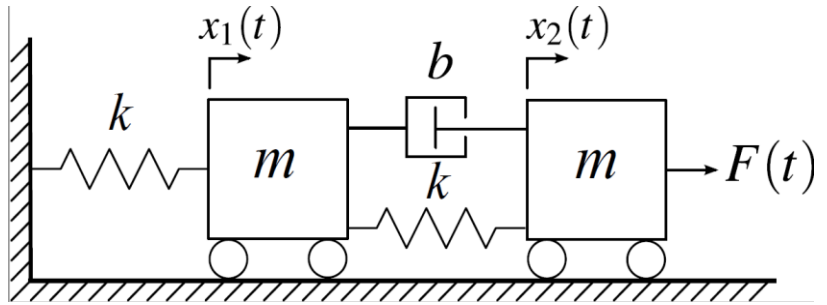
Hydraulic Circuit Example 2



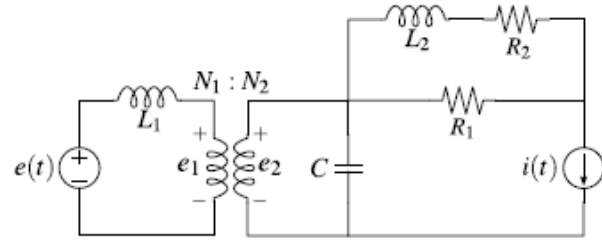
Mixed System Example



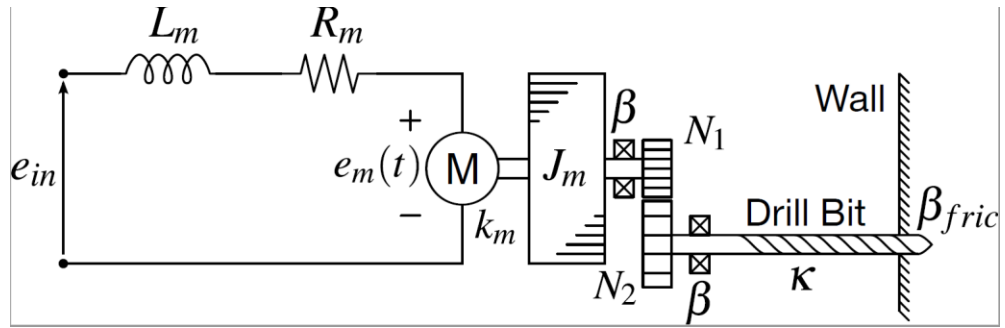
Practice Problem 1



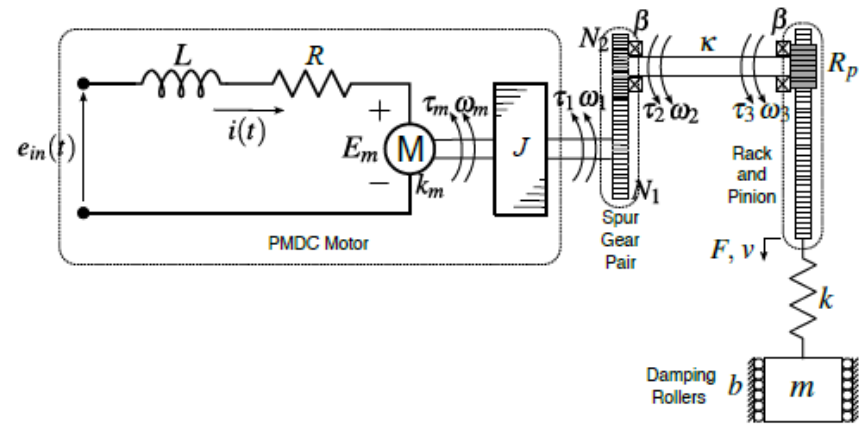
Practice Problem 2



Practice Problem 3

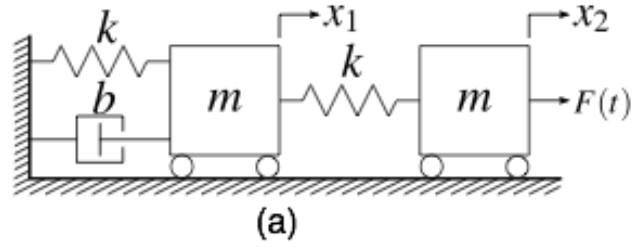


Practice Problem 4



Chapter 3 Lecture Problems: Synthesize the bond graph and derive the differential equations for the following problems.

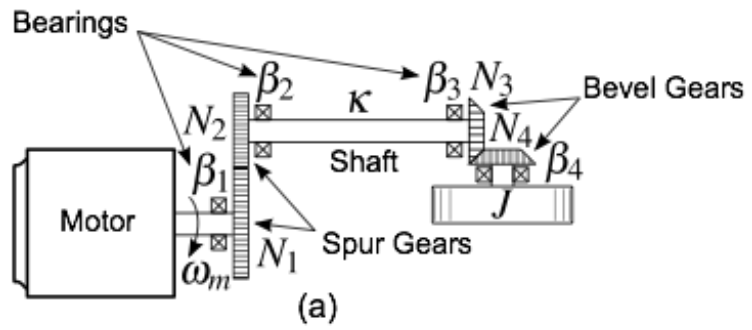
Mass-Spring-Damper Example





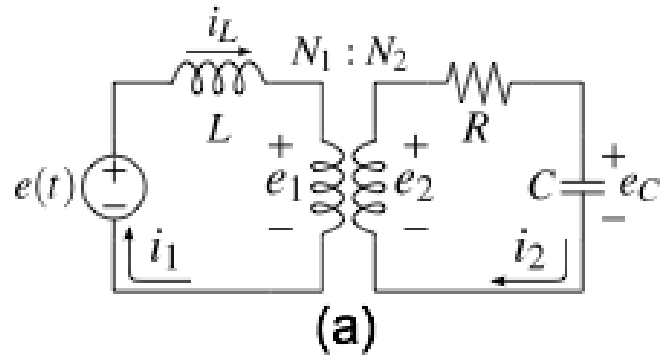
Chapter 3 Lecture Problems: Synthesize the bond graph and derive the differential equations for the following problems.

Mechanical Rotation  
Example



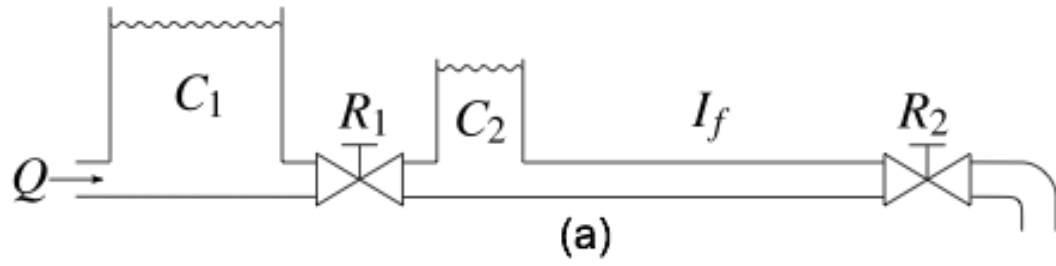
Chapter 3 Lecture Problems: Synthesize the bond graph and derive the differential equations for the following problems.

Electric Circuit Example



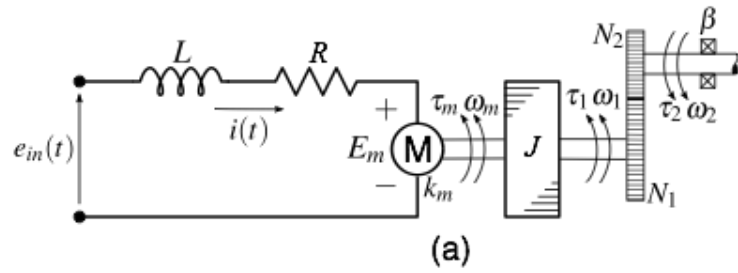
Chapter 3 Lecture Problems: Synthesize the bond graph and derive the differential equations for the following problems.

Hydraulic  
Circuit  
Example



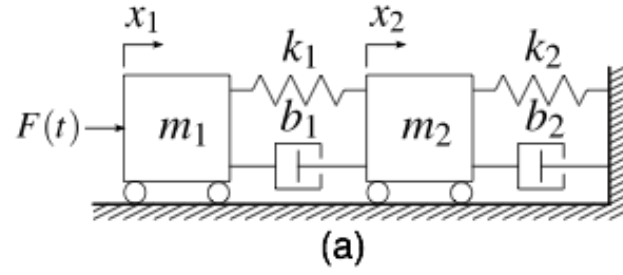
Chapter 3 Lecture Problems: Synthesize the bond graph and derive the differential equations for the following problems.

Mixed System Example



Chapter 3 Lecture Problems: Synthesize the bond graph and derive the differential equations for the following problems.

Algebraic Loops



Challenge Problem

