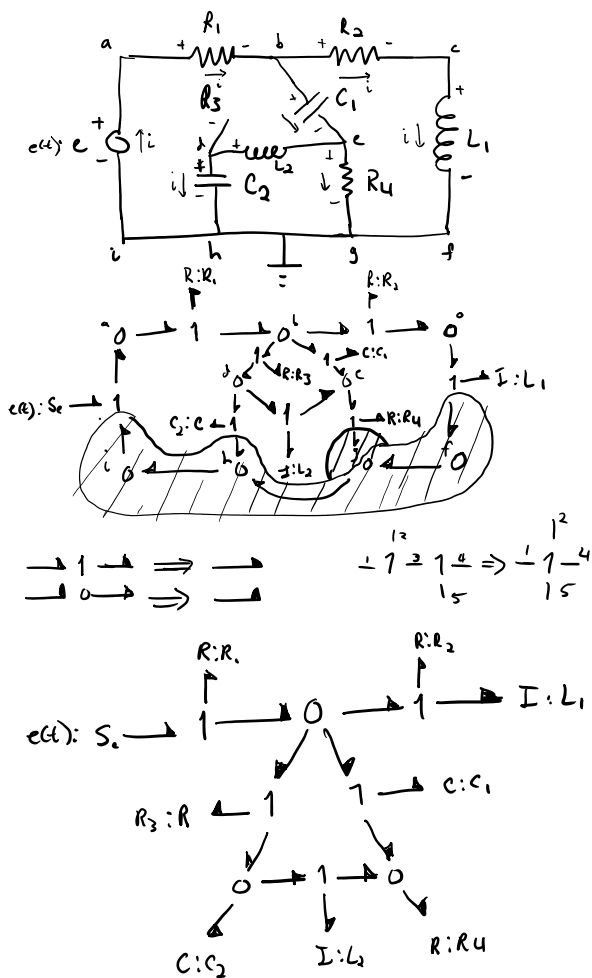
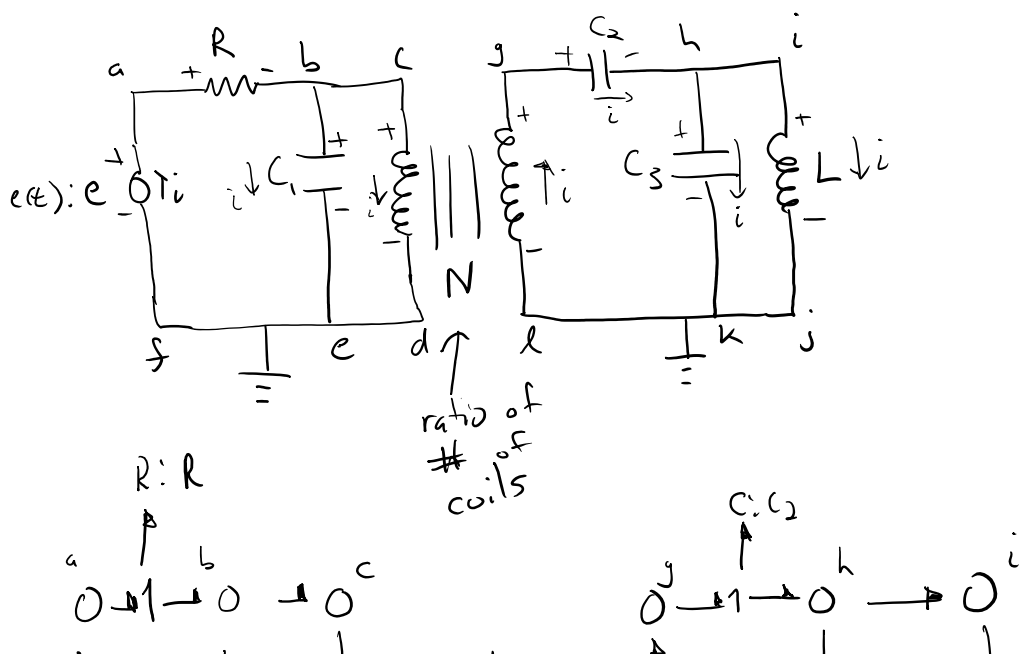
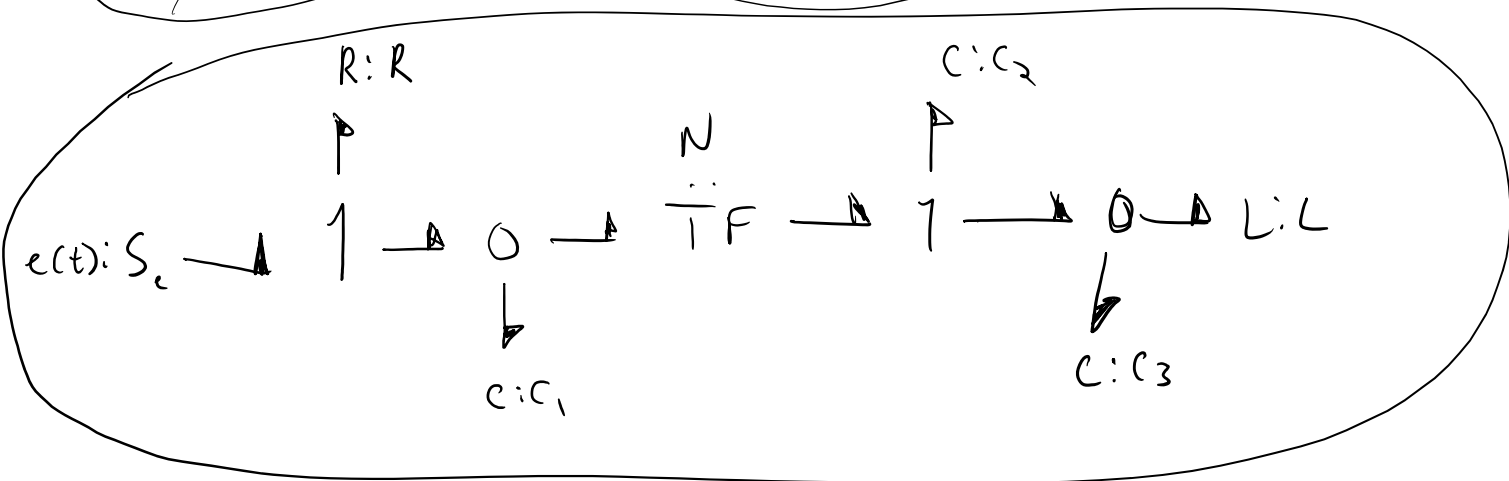
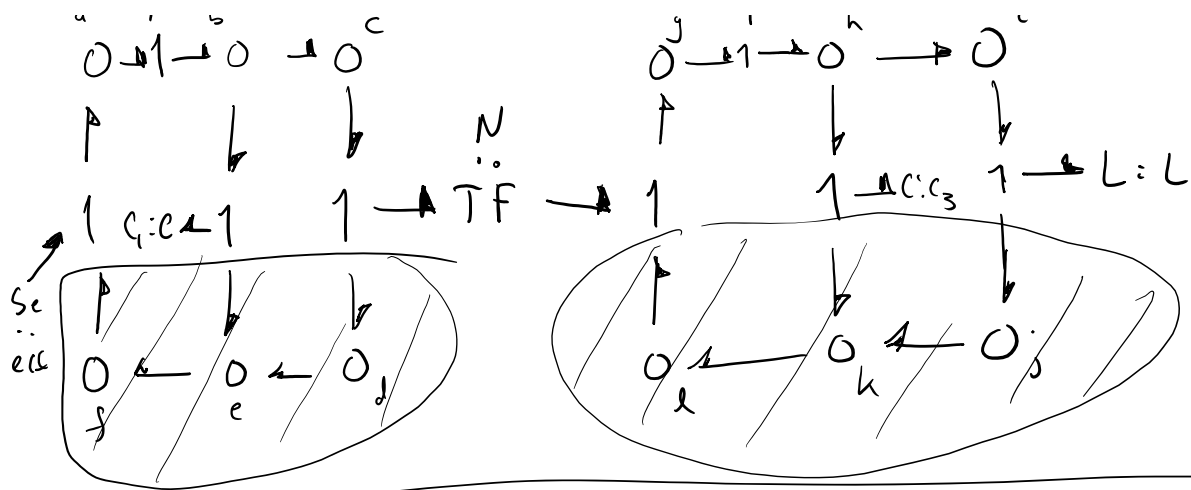


Electrical Ex. #2

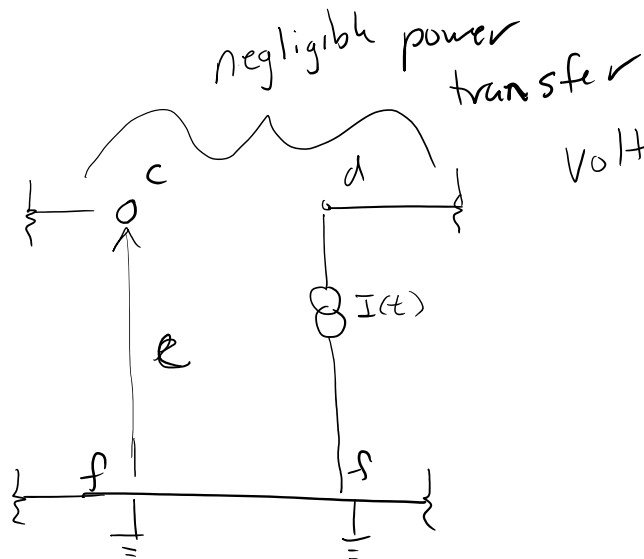


Exercise Network

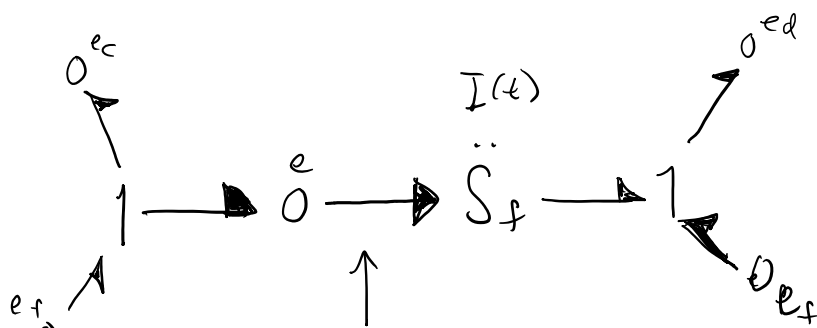




Active Bonds

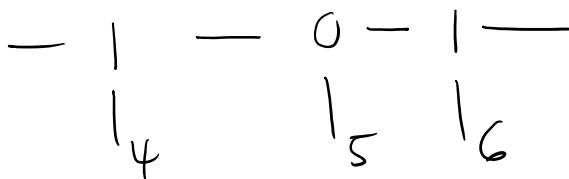
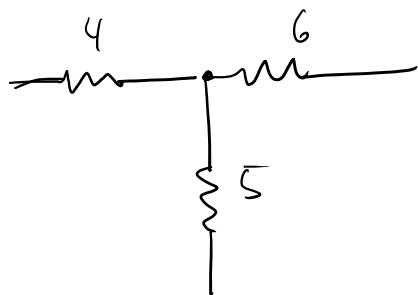
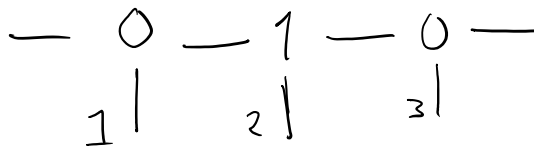
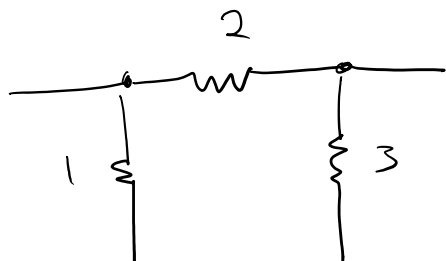


Voltage will specify/signal
the flow



0

active
bond



Mechanical System

masses, springs, dampers, levers, flywheels, gears, shafts, etc

Steps

1. Create a schematic and specify positive absolute directions of velocities and whether tension or compression is positive for each relative velocity.
2. Use 1-junctions to represent all velocities.
3. Attach to each 1-junction any element that relates to the absolute velocity (I, C, R, S_e, S_f , etc)
4. Use 0-junctions to establish relative velocities.
5. Eliminate bonds with zero velocity and simplify.

Example: Quarter car model

