

SYSTEMS & CONTROL: Class Test 1

1. Draw bond graph model of the system shown in Figure 1 and find its degrees of freedom.
2. Draw bond graph model of the system shown in Figure 2 (neglect all transformer losses).
3. Derive state-space equations of the system shown in Figure 3.
4. Draw block diagram model of the system shown in Figure 4 (consider heave and pitch only).

