

2.141 Modeling and Simulation of Dynamic Systems

Reading Assignment

9/20/06

Text:

ENGINEERING SYSTEM DYNAMICS
A Unified Graph-Centered Approach
Forbes T. Brown
Second Edition CRC Press ISBN: 0849396484

Recommended for review (not required):

- Chapter 1 A friendly introduction.
- Chapters 2, 3, 5 & 6 A review of network modeling and bond-graph basics.

It should be sufficient to skim these early chapters but I recommend working through at least some of the “guided problems”. Skip the sections marked *.

I assume the material in Chapters 4, 7 and 8 is familiar and does not require review.

Required reading:

- Chapter 9, Sections 9.3 & 9.4 Introduction to multi-port elements.

Skip the sections marked *.