Chapter 1 Introduction to Simulink

For instance, to group all blocks and lines in the model of Figure 1.19 except the display blocks, from the Edit drop menu we choose Create Subsystem and this model will be shown as in Figure 1.20" where at the MATLAB command prompt we have entered the following values:

a1=5; a2=-1; a3=4; a4=11; a5=6; a6=9; a7=-8; a8=4; a9=15;... k1=14; k2=-6; k3=9;

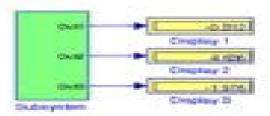


Figure 1.20. The model in Figure 1.19 represented as a subsystem

The Display Hocks in Figure 1.20 show the values of x_1 , x_2 , and x_3 for the values that we specified at the MATLAB command prompt above.

The Subsystem block is described in detail in Chapter 2, Section 2.1, Page 2-2.

1.2 Simulink Demos

At this time, the reader with no prior knowledge of Simulink, should be ready to learn Simulink's additional capabilities. We will explore other features in the subsequent chapters. However, it is highly recommended that the reader becomes familiar with the block libraries found in the Simulink Library Browser. Then, the reader can follow the steps delineated in The MathWorks Simulink User's Manual to run the Demo Models beginning with the thermo model. This model can invoked by typing thermo at the MATLAB command prompt.

In the subsequent chapters, we will study each of the blocks under each of libraries in the Tree Pane. They are listed in Table 1.1 below in alphabetical order, the library where they appear, the chapter where they are described in this text, section/subsection, and page number in which they are described.

^{*} The constents of the Subsystem block are not lost. We can slowble-click on the Subsystem block to see its contents. The Subsystem block replaces the inputs and outputs of the model with Inport and Output blocks. These blocks along with the Subsystem block are described in Section 2.1, Chapter 2, Page 2-2.

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