

Instructional Objectives for Roberts Chapter 4 – Properties of Continuous-Time Systems

4.2 – Block Diagrams and System Terminology

Define the following terms in regards to a system: excitation (input) signal, response (output) signal, and operator.

Using proper terminology, draw the block diagram of a generic continuous-time system using integrators, summers and inverters.

4.3 System Modeling

Given a system description, draw a block diagram of that system.

4.4 System Properties

Determine the following characteristics of a system: time invariance, linearity, stability, causality, memory, invertibility.