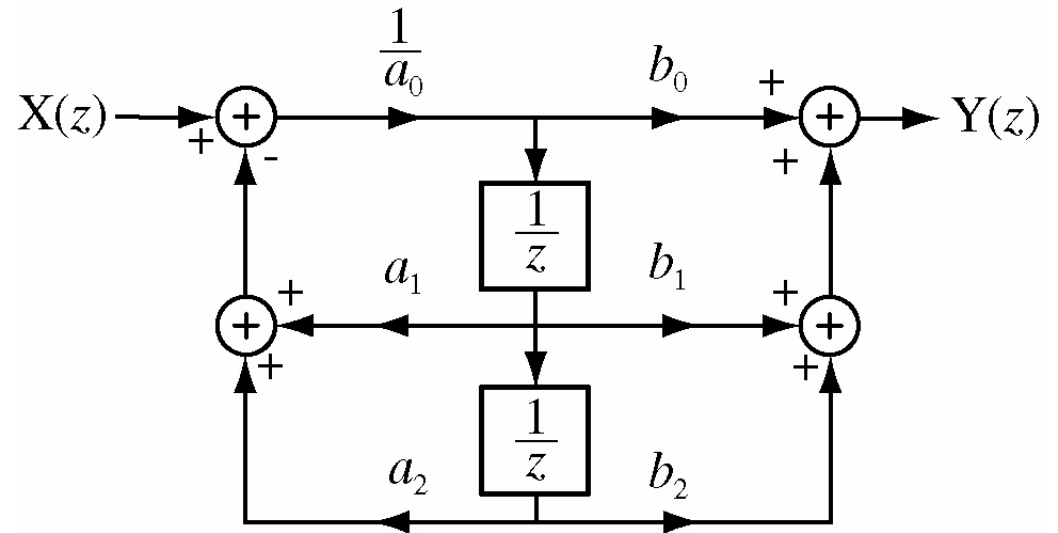


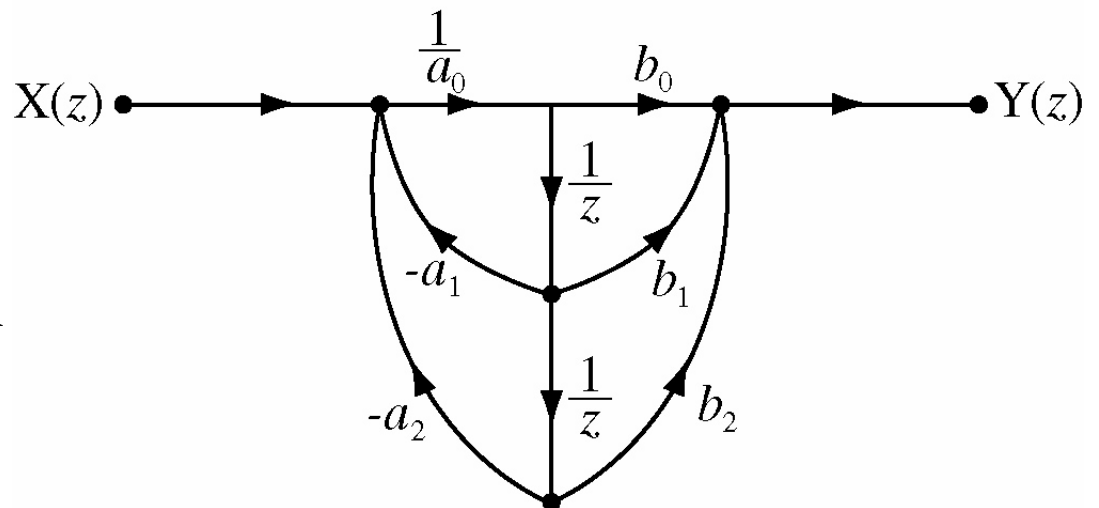
Signal Flow Graphs and Transposed Realizations

Signal Flow Graphs

Direct Form II
Block Diagram



Direct Form II
Signal Flow Graph

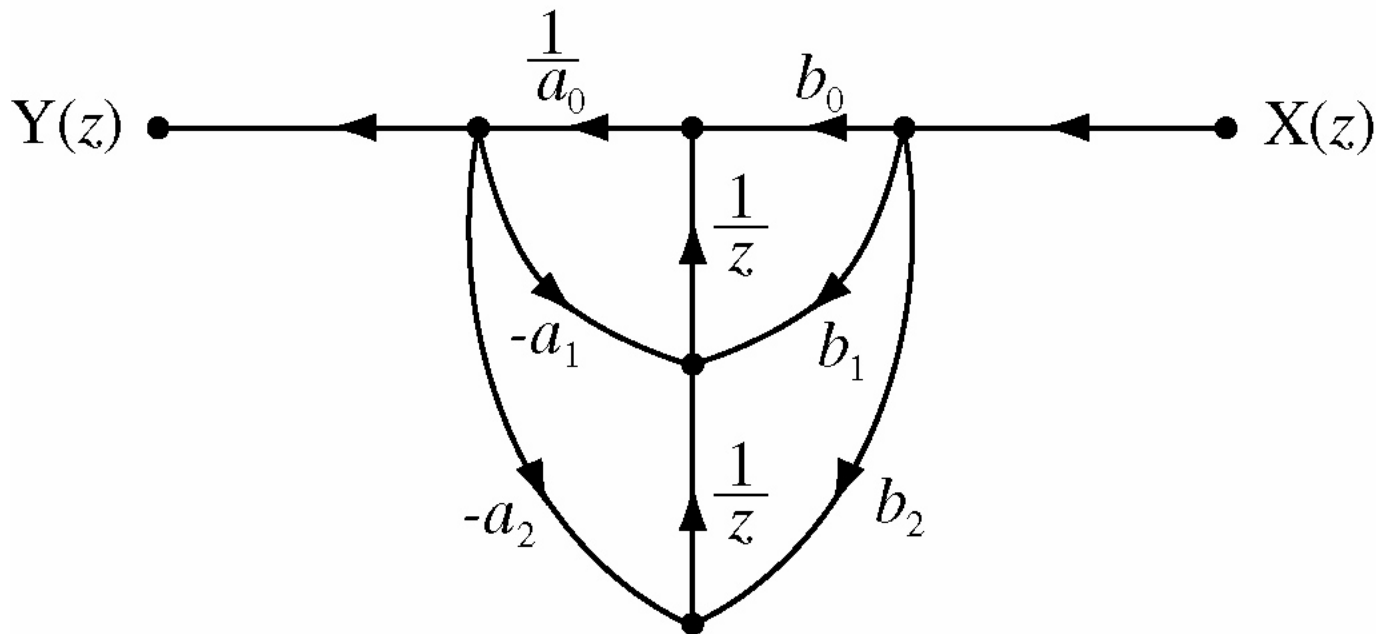


Signal Flow Graphs

Both branch points and summing junctions are indicated by **nodes**. Each signal leaving a node is the sum of the signals entering the node. The input signal comes from a **source node** and the output signal goes to a **sink node**. A theorem from signal flow graph theory says that if we reverse the direction of all branches and exchange the input and output nodes, the system's transfer function remains the same.

Signal Flow Graphs

Reversed Direct Form II Flow Graph



Signal Flow Graphs

Transposed Direct Form II Block Diagram

