

Block Diagram Reduction

Given a complicated diagram involving series, parallel, and feedback interconnections, we often want to write down an overall transfer function from one of the variables to another.

This requires lots of practice: read FPE, Section 3.2 for examples.

General strategy:

- ▶ Name all the variables in the diagram
- ▶ Write down as many relationships between these variables as you can
- ▶ Learn to recognize series, parallel, and feedback interconnections
- ▶ Replace them by their equivalents
- ▶ Repeat