

Block Diagram Models, Signal Flow Graphs and Simplification Methods

Dynamic Systems and Control
Lavi Shpigelman

Block Diagram Models

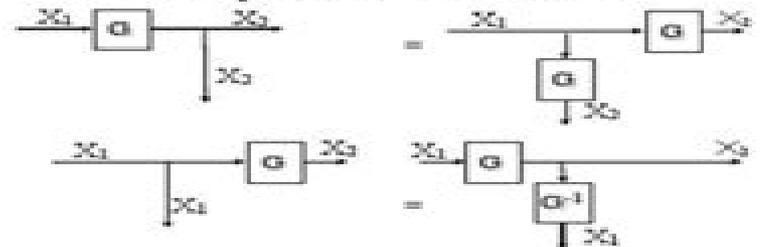
- Visualize input output relations
- Useful in design and realization of (linear) components
- Helps understand flow of information between internal variables.
- Are equivalent to a set of linear algebraic equations (of rational functions).
- Mainly relevant where there is a cascade of information flow



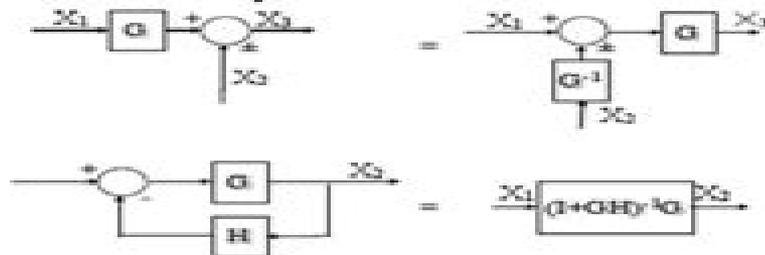
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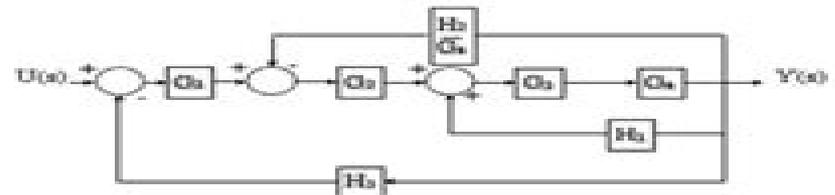
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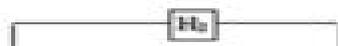
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Block Diagram Reduction (with SISO components)



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