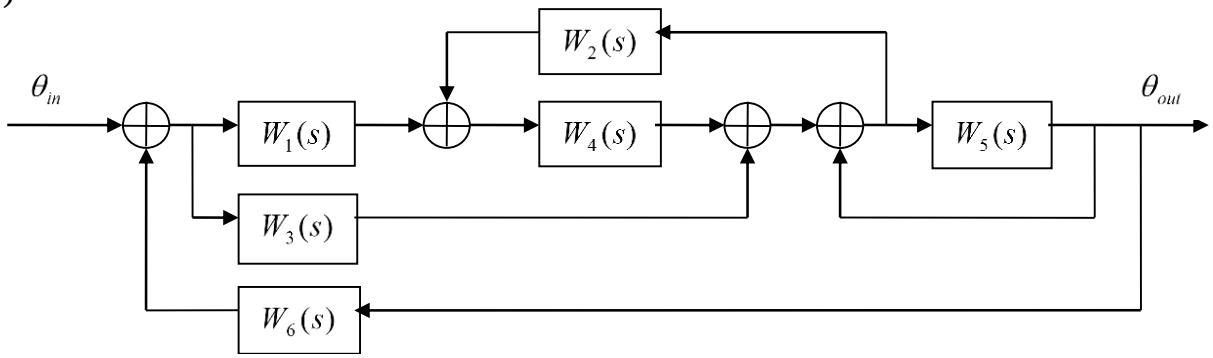
IWS$_3$

Topic: **Algebra of structural transformations**

Task You have the transfer functions of separate links and communication between them. Receive the transfer function of linear dynamic system as a whole.

Variants:

1)



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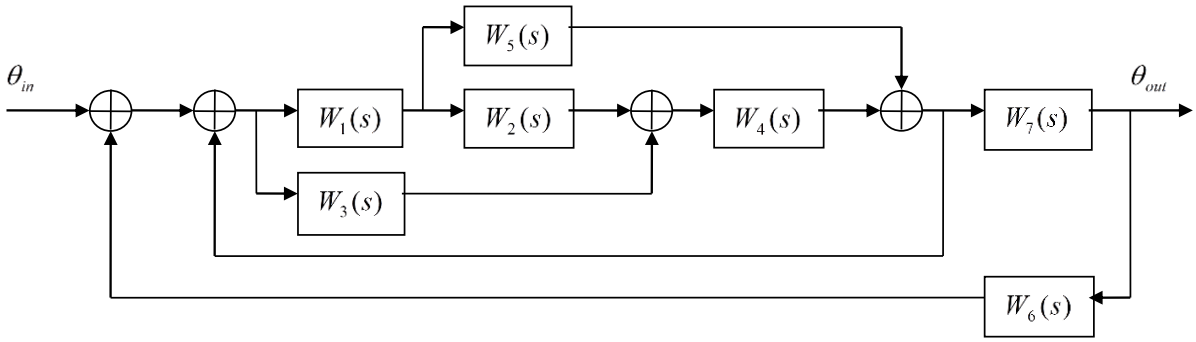

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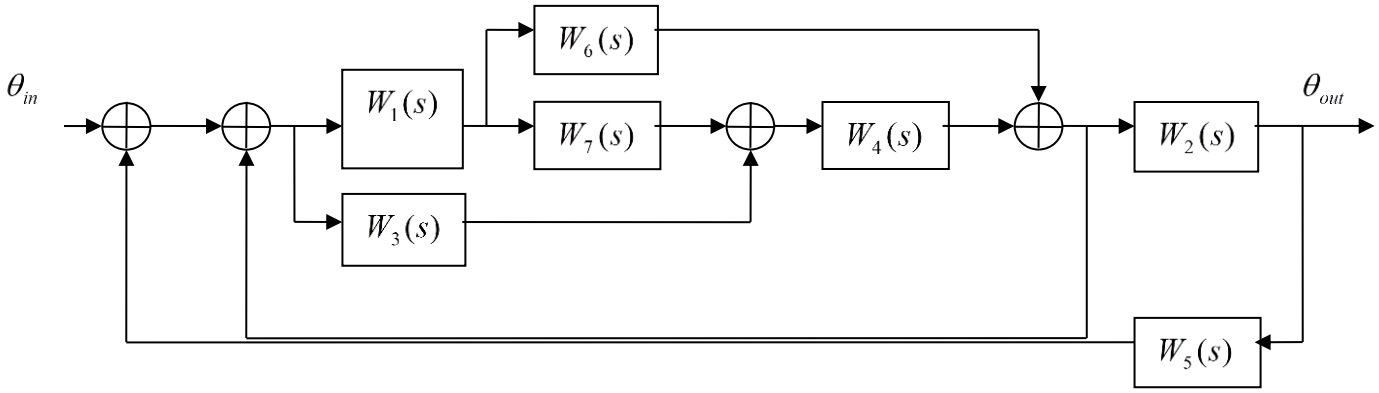
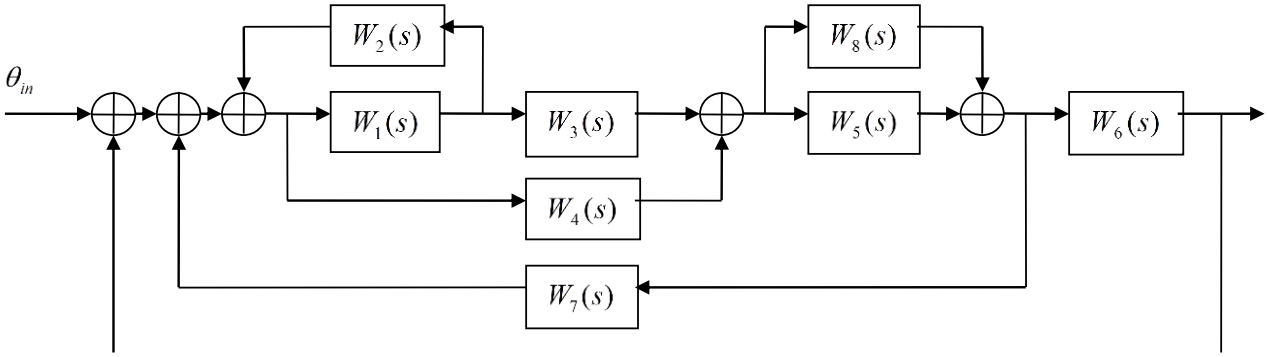
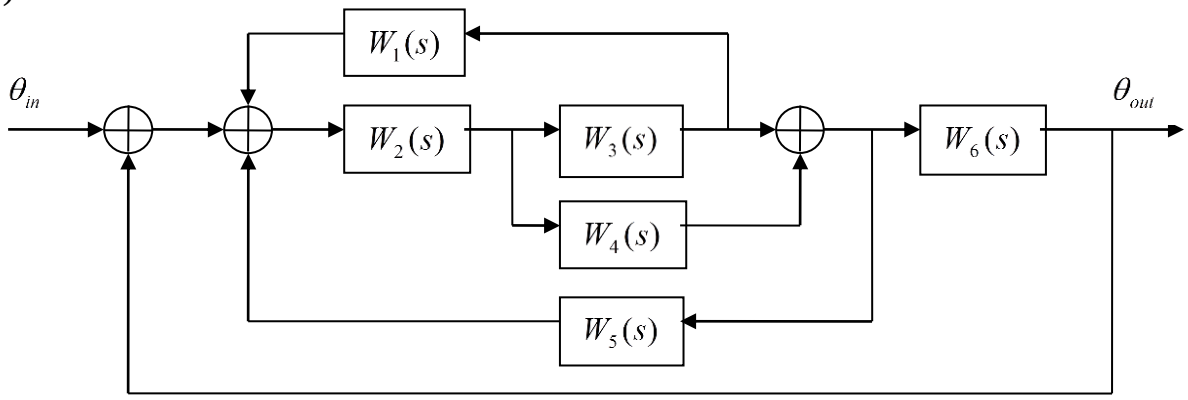
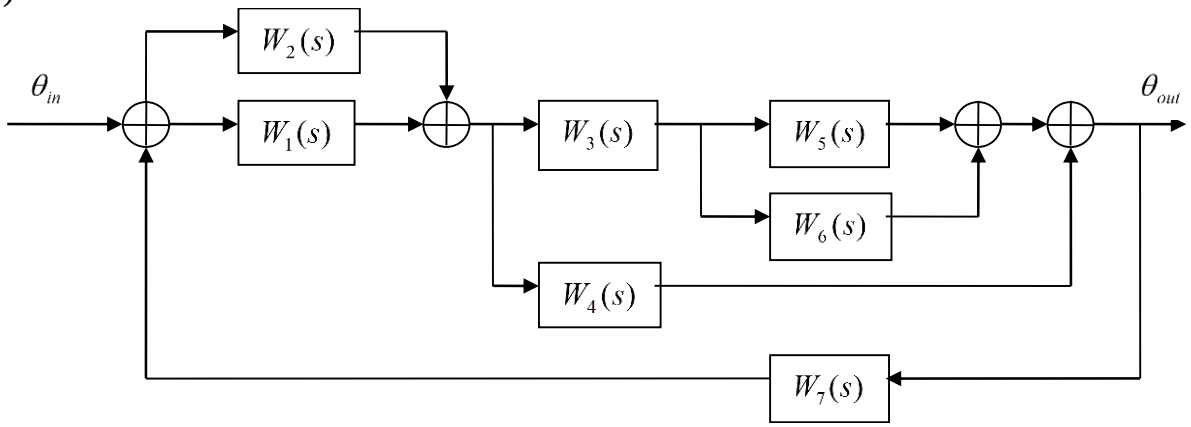



θ_{in}
$W_2(s)$
$W_8(s)$
$W_1(s)$
$W_3(s)$
$W_5(s)$
$W_6(s)$
$W_4(s)$
$W_7(s)$

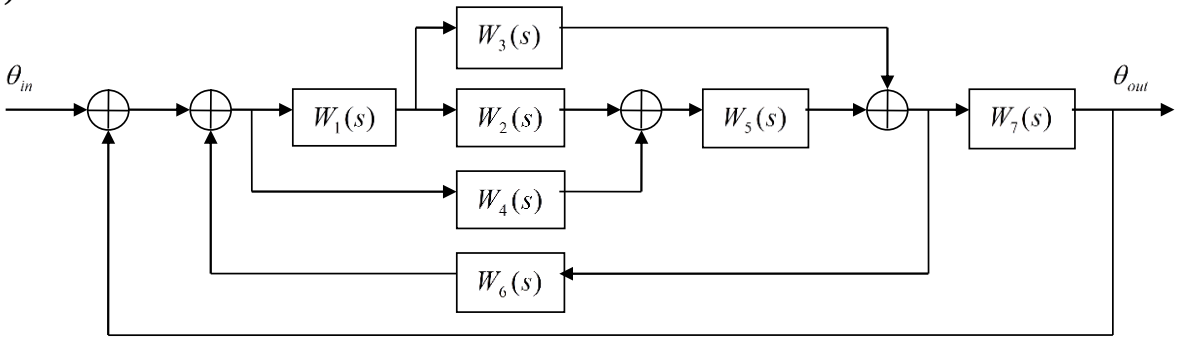
4)


θ_{in}
$W_1(s)$
θ_{out}
$W_2(s)$
$W_3(s)$
$W_6(s)$
$W_4(s)$
$W_5(s)$

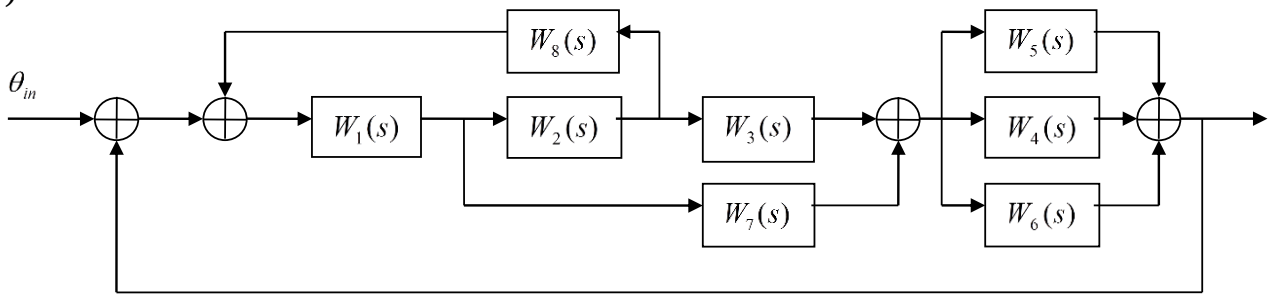
5)


$W_2(s)$
θ_{in}
θ_{out}
$W_1(s)$
$W_3(s)$
$W_5(s)$
$W_6(s)$
$W_4(s)$
$W_7(s)$

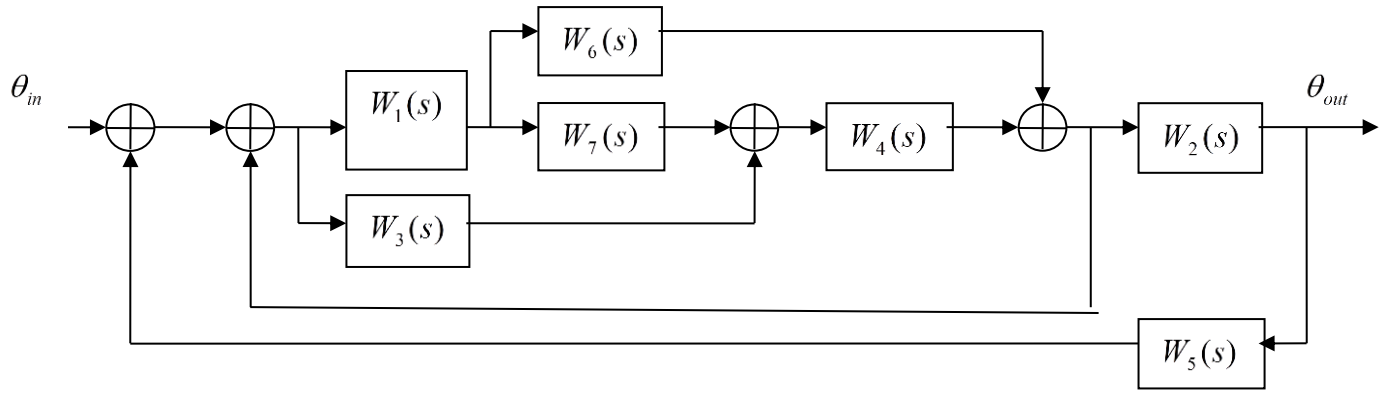
6)


$W_3(s)$
θ_{in}
θ_{out}
$W_1(s)$
$W_2(s)$
$W_5(s)$
$W_7(s)$
$W_4(s)$
$W_6(s)$

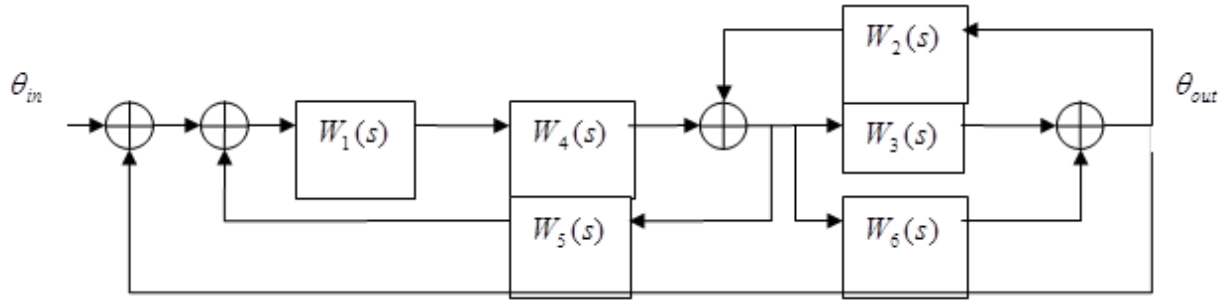
7)


θ_{in}
$W_8(s)$
$W_1(s)$
$W_2(s)$
$W_3(s)$
$W_5(s)$
$W_4(s)$
$W_7(s)$
$W_6(s)$

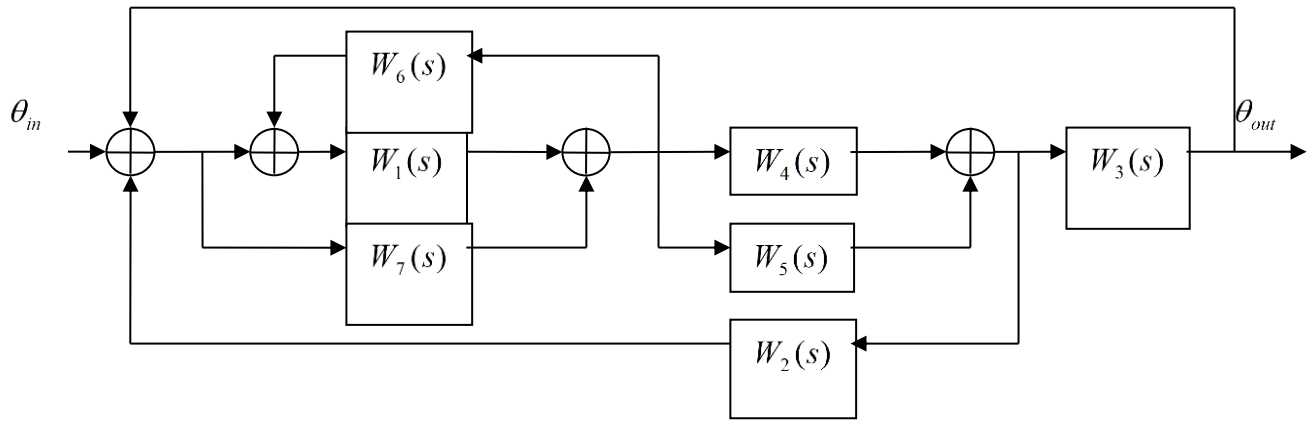
8)


θ_{in}
$W_6(s)$
$W_1(s)$
$W_7(s)$
$W_4(s)$
$W_2(s)$
θ_{out}
$W_3(s)$
$W_5(s)$

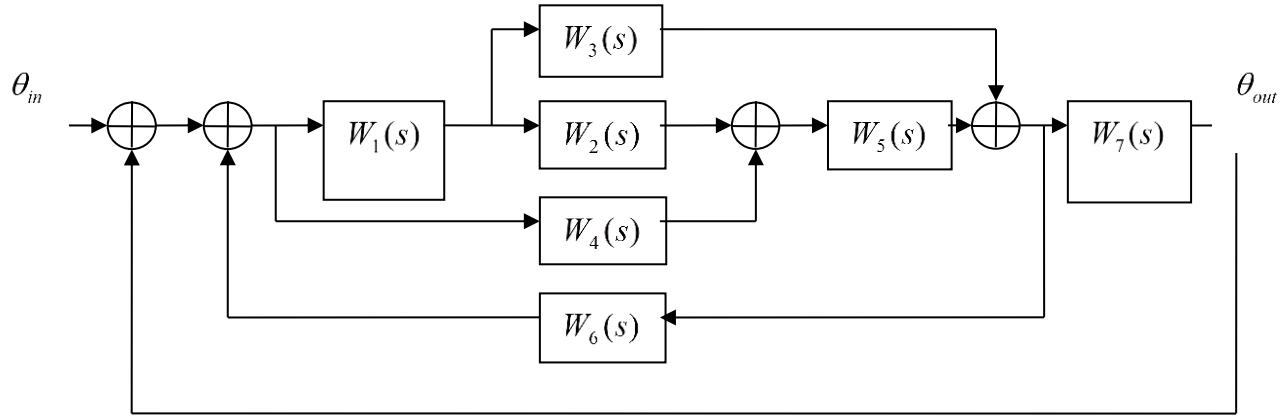
9)


θ_{in}
$W_2(s)$
$W_1(s)$
$W_4(s)$
$W_3(s)$
θ_{out}
$W_5(s)$
$W_6(s)$

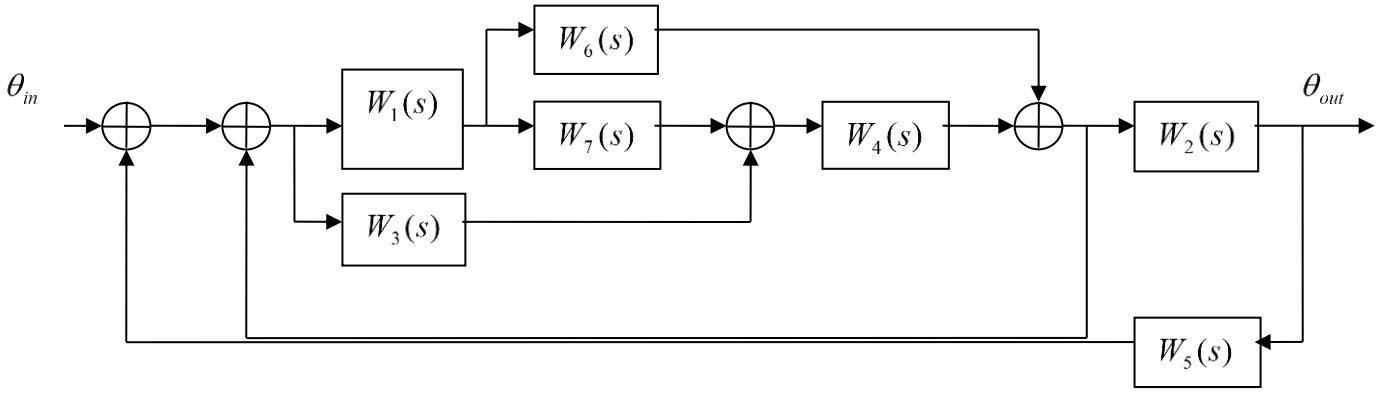
10)


θ_{in}
$W_6(s)$
$W_1(s)$
$W_7(s)$
$W_4(s)$
$W_5(s)$
$W_2(s)$
$W_3(s)$
θ_{out}

11)


θ_{in}
$W_3(s)$
$W_1(s)$
$W_2(s)$
$W_5(s)$
$W_7(s)$
θ_{out}
$W_4(s)$
$W_6(s)$

12)


θ_{in}
$W_6(s)$
$W_1(s)$
$W_7(s)$
$W_4(s)$
$W_2(s)$
θ_{out}
$W_3(s)$
$W_5(s)$