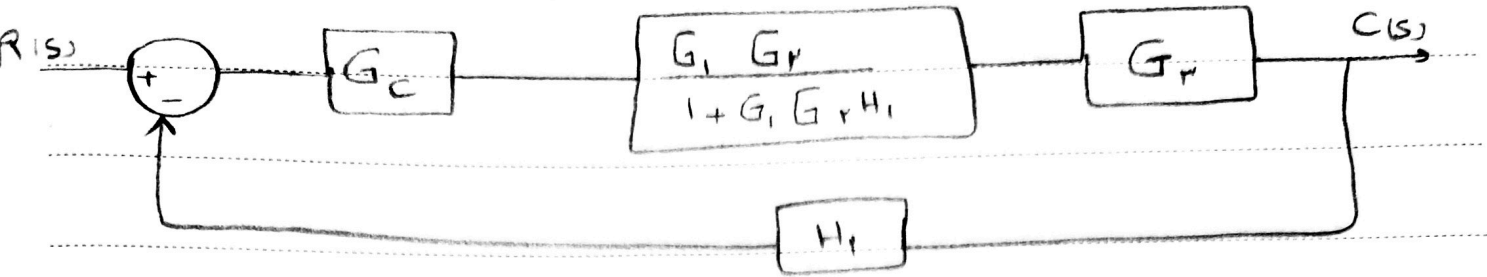


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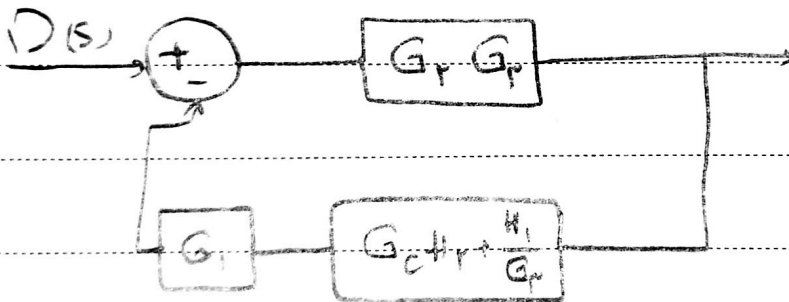
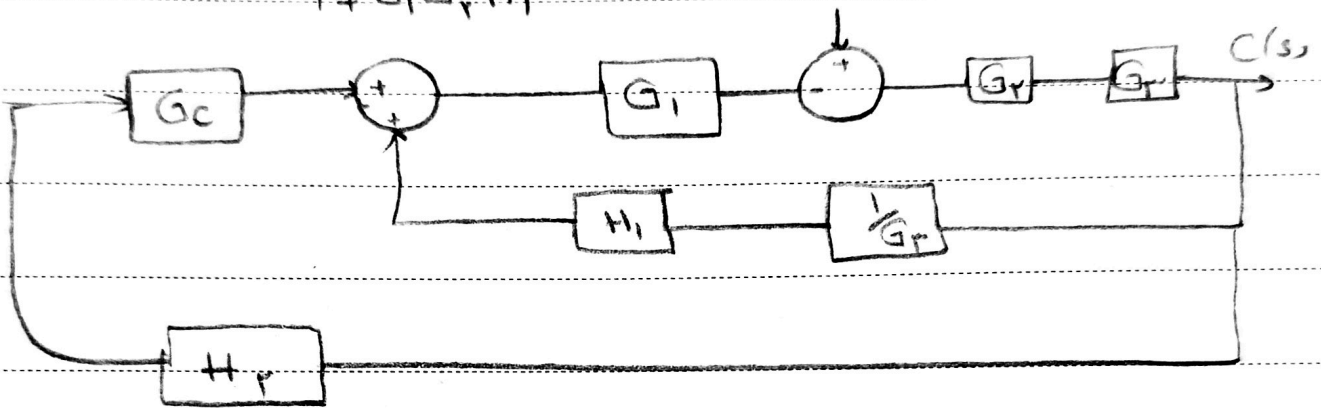
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$$\frac{C(s)}{R(s)} = \frac{\frac{G_c G_1 G_r G_r}{1 + G_1 G_r H_1}}{1 + \frac{G_c G_1 G_r G_r H_1}{1 + G_1 G_r H_1}} = \frac{G_c G_1 G_r G_r}{1 + G_1 G_r H_1 + G_c G_1 G_r G_r H_1}$$



$$\frac{C(s)}{D(s)} = \frac{G_r G_r}{1 + G_r G_r G_1 (G_c H_r + \frac{H_1}{G_r})} = \frac{G_r G_r}{1 + G_r G_r G_1 G_c H_r + G_1 H_1}$$