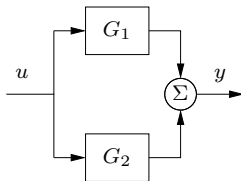
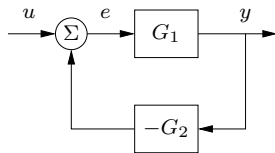


(a) $G_{yu} = G_2 G_1$



(b) $G_{yu} = G_1 + G_2$



(c) $G_{yu} = \frac{G_1}{1 + G_1 G_2}$

Figure 9.5: Interconnections of linear systems. Series (a), parallel (b), and feedback (c) connections are shown. The transfer functions for the composite systems can be derived by algebraic manipulations assuming exponential functions for all signals.