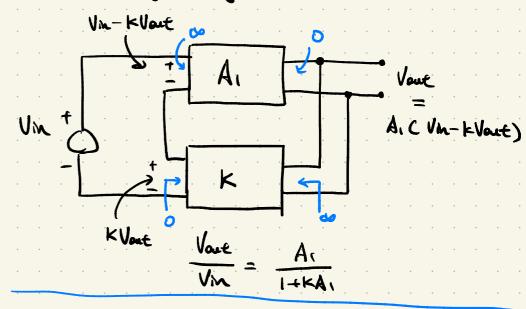
Lec34

- Four Feedback Topologies
- Voltage-Voltage Feedback
- · Four Feedback Topologies

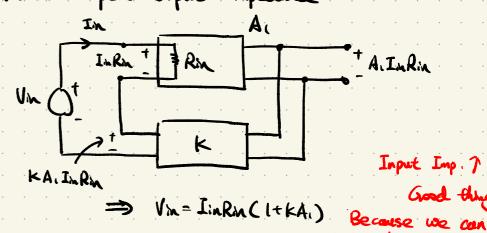
X	Y		Feedback Topology
	V 1	, V ,	Voltage-Voltage Feedback output input (shunt-series Feedback)
	V 1	· 1.	Voltage - Current Feedback (shunt-shunt Peedback)
, , v ,	I	, V	Gurent-Voltage Feedback
I.	I	1	Current - Current Feedback

Objective: To find the closed-loop gain and the closed-loop input and output impedances

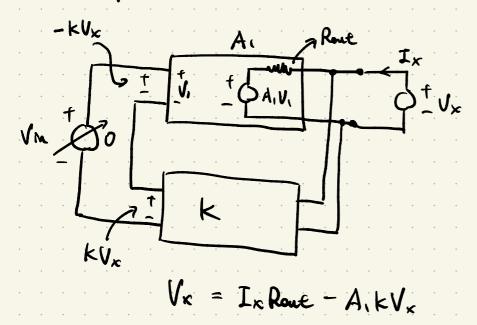
Analysis of Voltage-Voltage Feedback



Closed-Looped Input Impedance



Closed-Loop Output Impedance



Closed-Loop Output Imp.

$$\frac{V_x}{I_x} = \frac{Rout}{1 + KA_x}$$

Still a good thing!

Example

