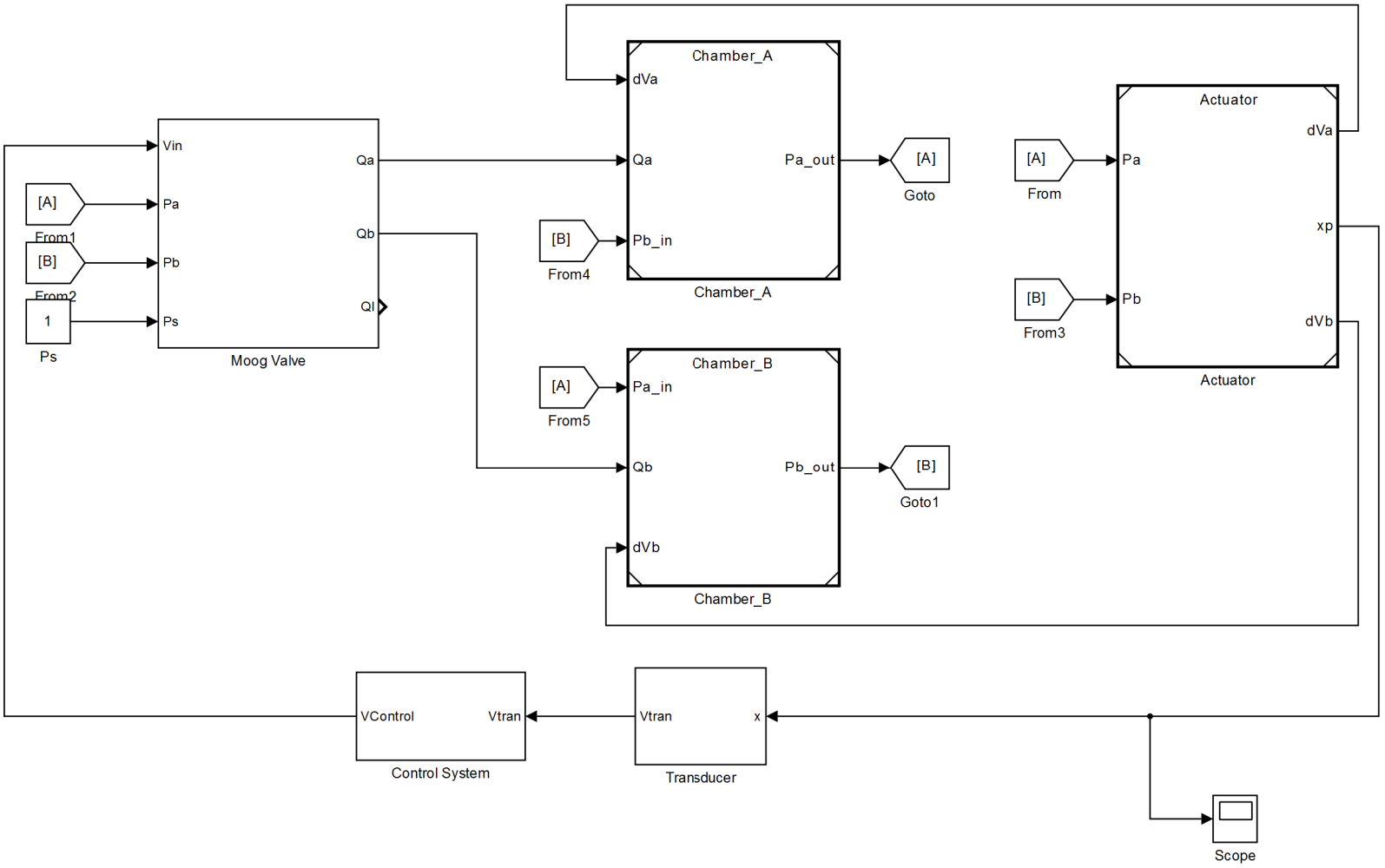
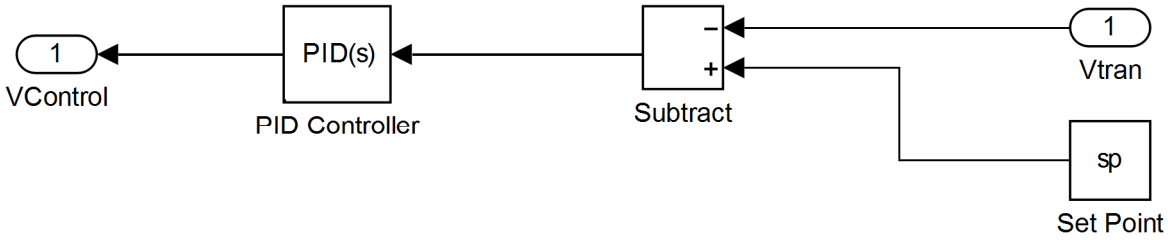
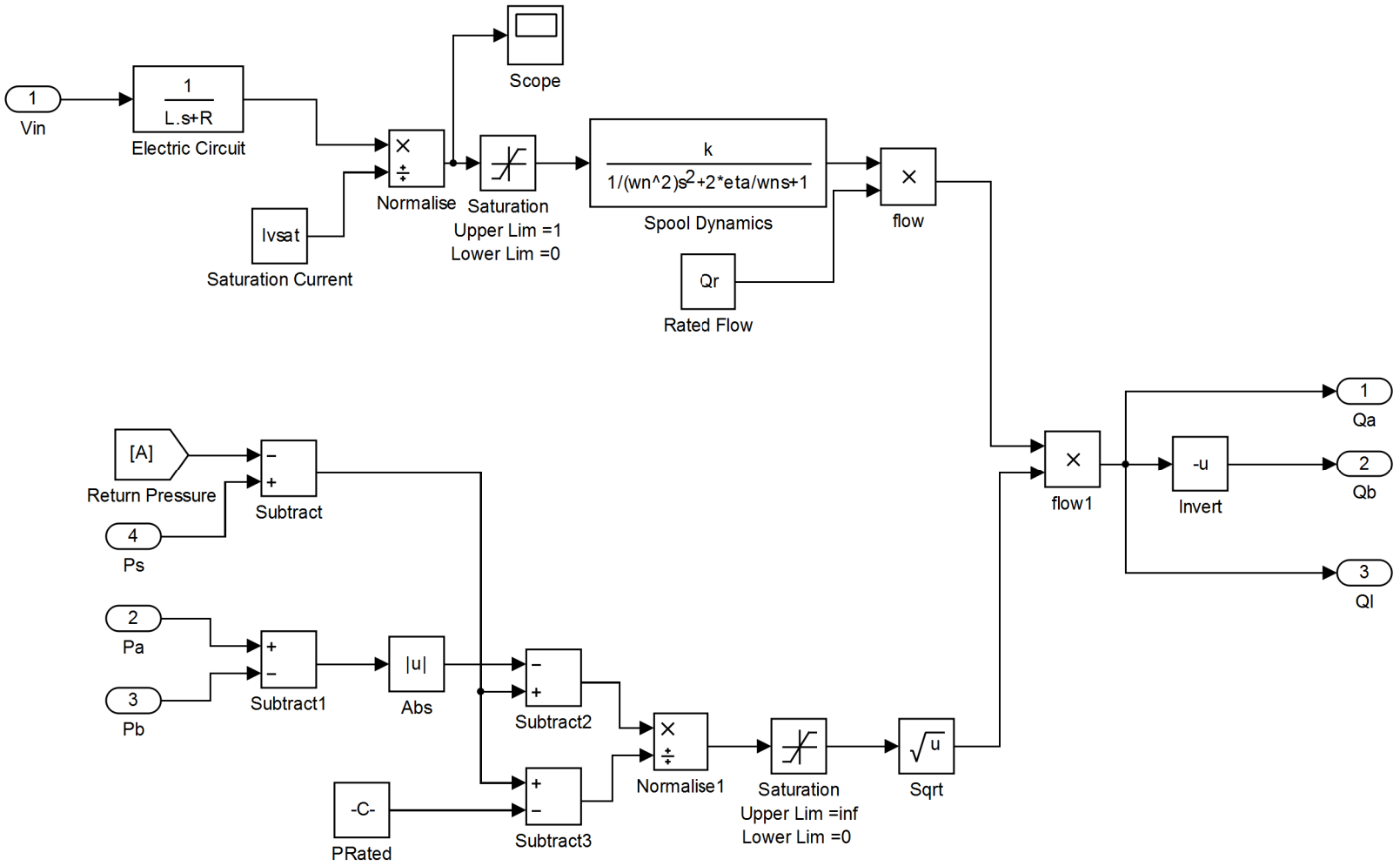

Chamber_A
dVa
Qa
Pb_in
Pa_out
Chamber_A
[A]
Goto
[B]
From4
Actuator
dVa
Pa
xp
Pb
dVb
Actuator
[A]
From
[B]
From3
Vin
Pa
Pb
Ps
Qa
Qb
Ql
Moog Valve
[A]
From1
[B]
From2
1
Ps
Chamber_B
Pa_in
Qb
dVb
Pb_out
Chamber_B
[A]
From5
[B]
Goto1
VControl
Vtran
Control System
Vtran
x
Transducer
Scope

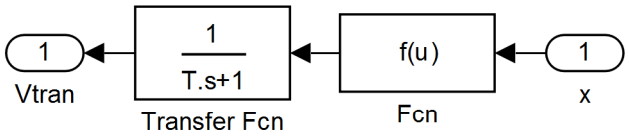

1
VControl
PID(s)
PID Controller
–
+
Subtract
1
Vtran
sp
Set Point

Moog_Gearshift/Moog Valve

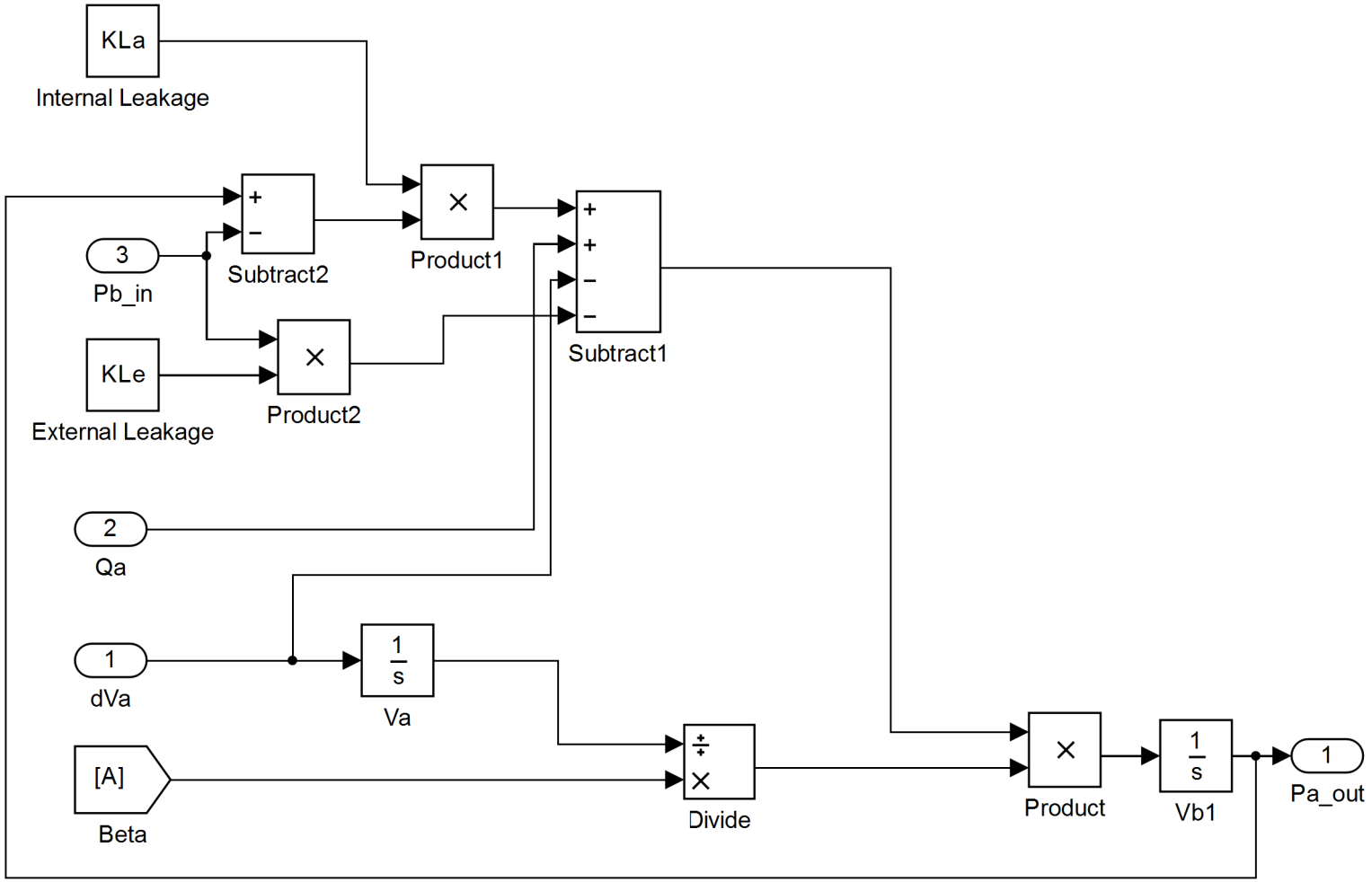


E:\Documents\Projects\Moog Gearshift\Moog_Gearshift.slx

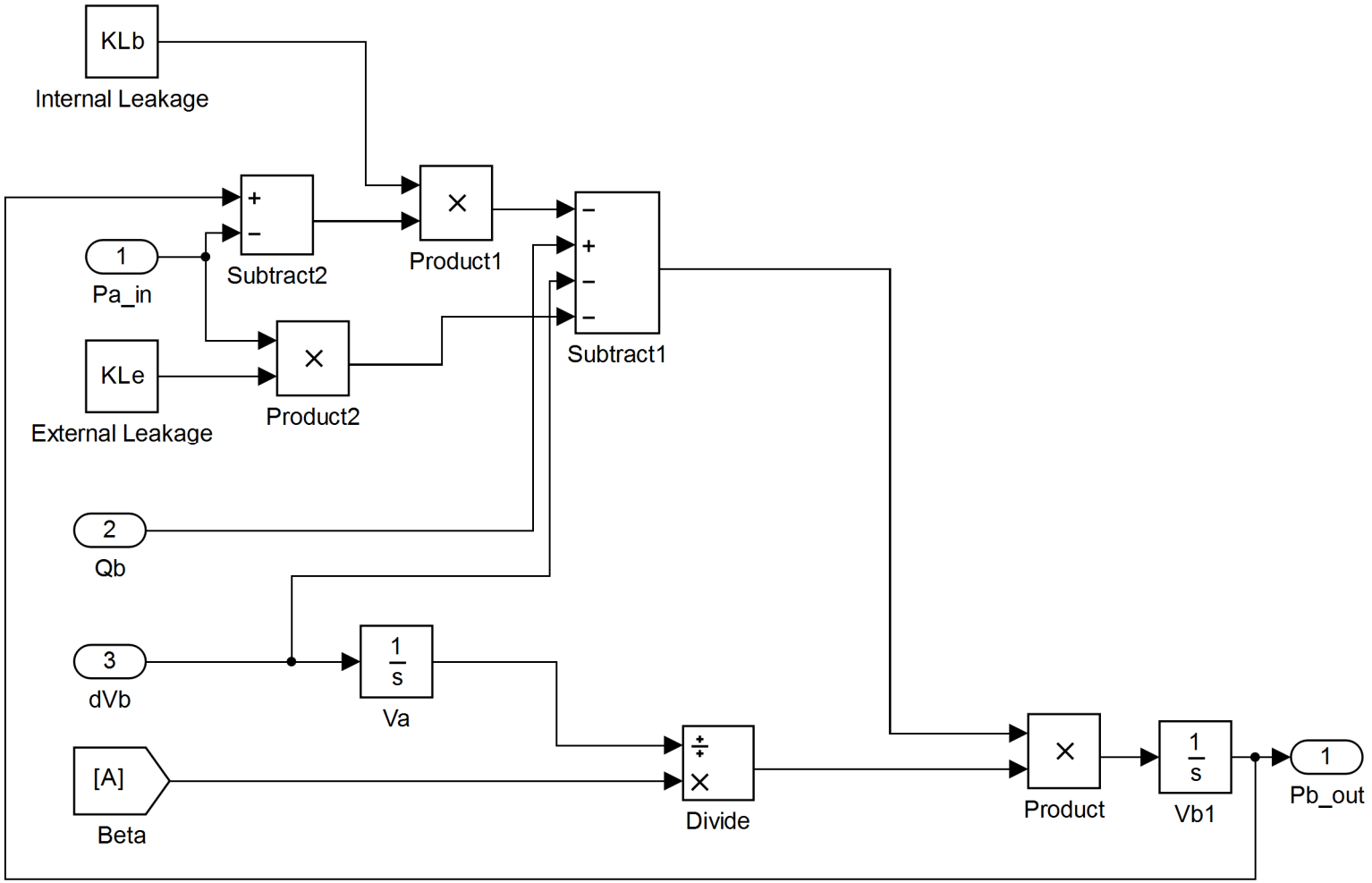
printed 12-Dec-2012 21:39

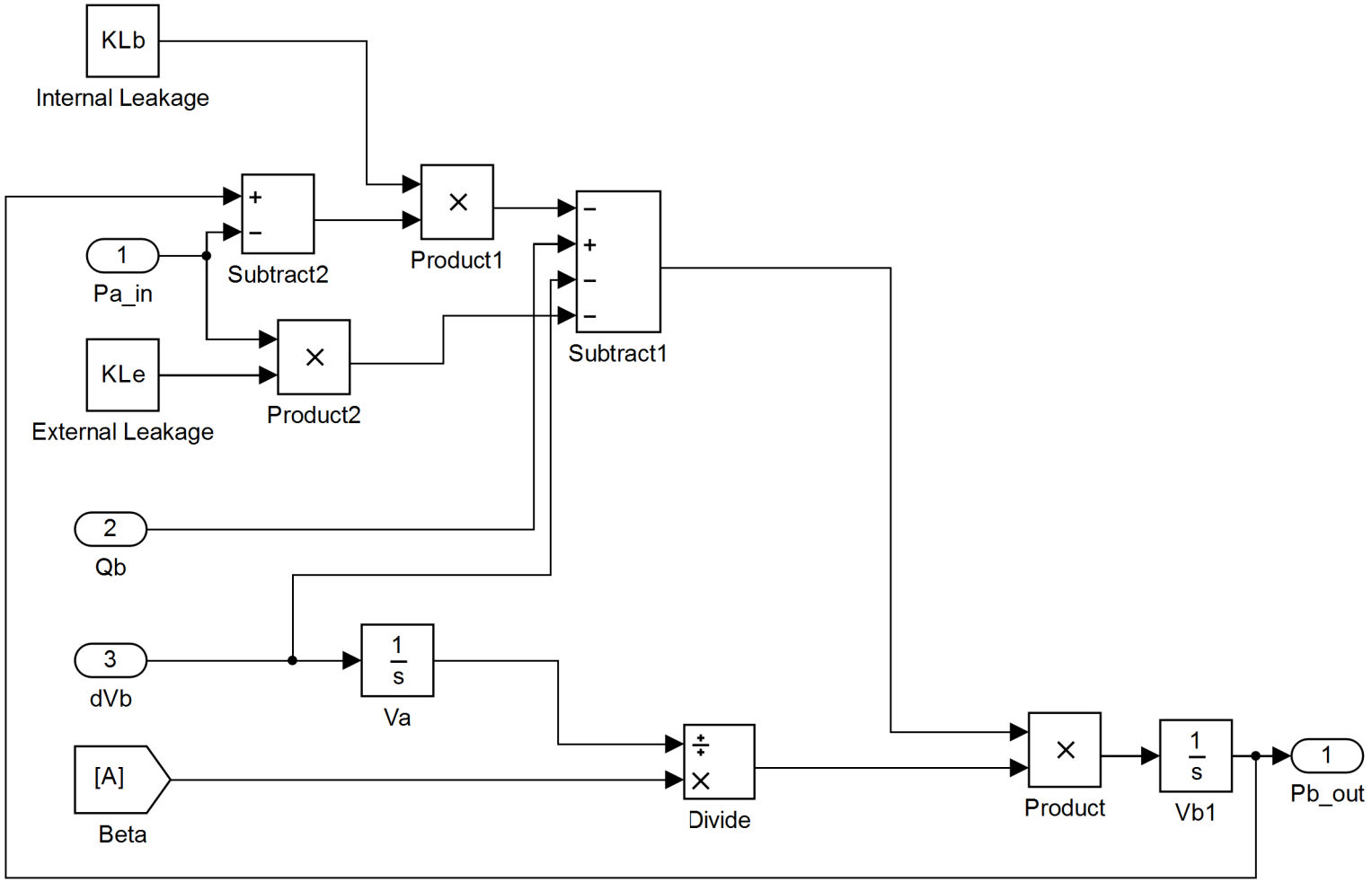

1
Vtran
1
T.s+1
Transfer Fcn
f(u)
Fcn
1
x

Chamber_A



E:\Documents\Projects\Moog Gearshift\Chamber_A.slx


KLb
Internal Leakage
+
−
Subtract2
×
Product1
1
Pa_in
KLe
External Leakage
×
Product2
−
+
−
−
Subtract1
2
Qb
3
dVb
1
s
Va
[A]
Beta
÷
×
Divide
×
Product
1
s
Vb1
1
Pb_out


KLb
Internal Leakage
+
−
Subtract2
×
Product1
1
Pa_in
−
+
−
−
Subtract1
KLe
External Leakage
×
Product2
2
Qb
3
dVb
1
s
Va
[A]
Beta
÷
×
Divide
×
Product
1
s
Vb1
1
Pb_out