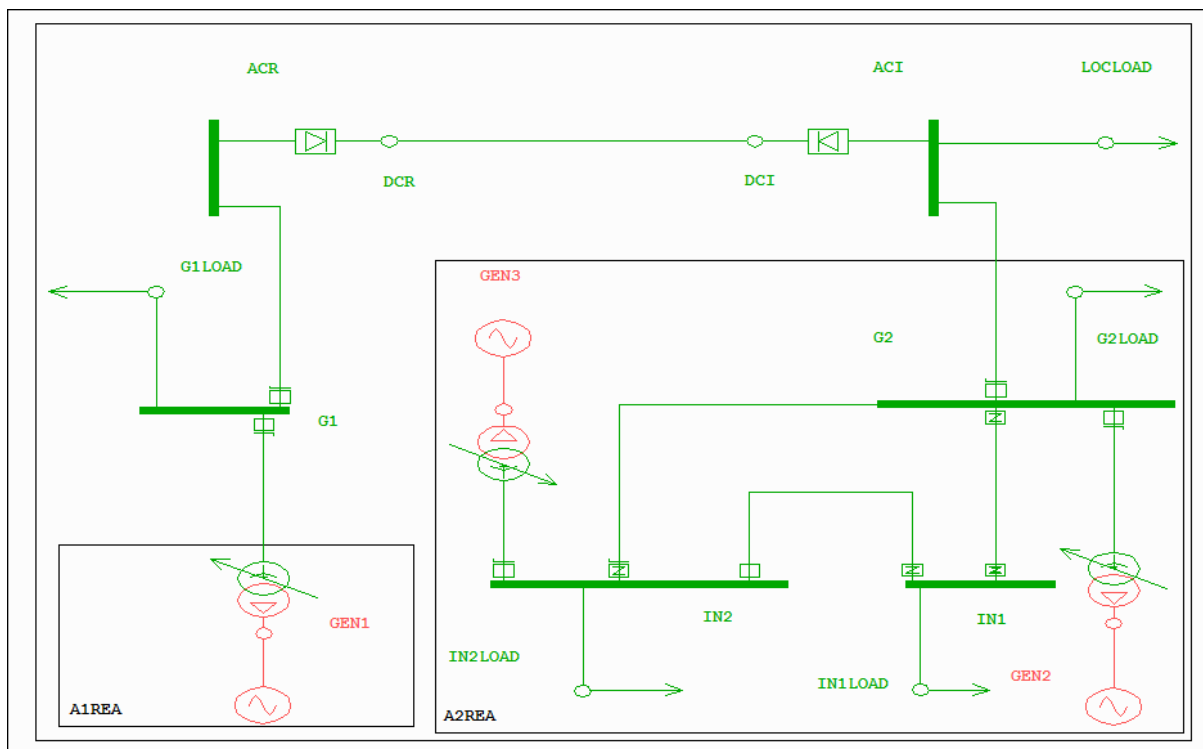




CHAPTER 17

DC Addition

In the below picture you will find an AC-DC network including convertors and invertors.



The thyristor based input/output data can be entered in AC/DC convertor data pages as explained in the below pictures.

AC/DC CONVERTOR DATA 1

BUS-SEND BUS-REC DC-P-PMW DC-V-PU AC-P-MW AC-Q-MVAR C-X-PU OP-TAP MIN-TAP TAP-STEP MAX-TAP F-A-DG DC-I-PU

ACR	DCR	0.000			0.100	0.800	0.010	1.200	0.800
ACI	DCI	-0.000	-1.200	1.875	0.100	0.800	0.010	1.200	

OPTIONS:

REDISPLAY

HELP

RETURN

The variables are: please refer to on line help of PASHA for description of variables.

AC/DC CONVERTOR DATA 2

BUS-SEND	BUS-REC	STATE	HARM-ELM	PULSE-NO	HARM-NO	V-UN	F-UN	TM4	TM5	TM6	TM7	UDEM-TYP
ACR	DCR			6				5.000	23.000	1.000		CVNR
ACI	DCI			6				15.000	12.000	1.000		INVE

OPTIONS:

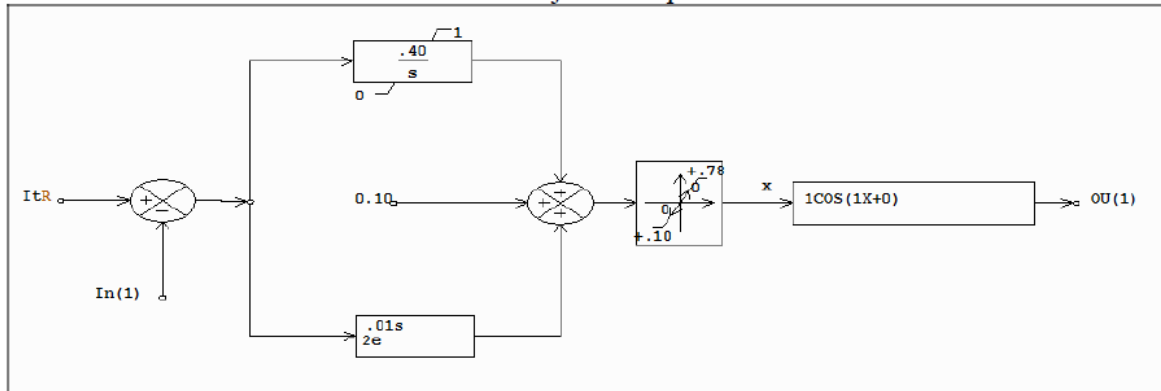
REDISPLAY

HELP
RETURN

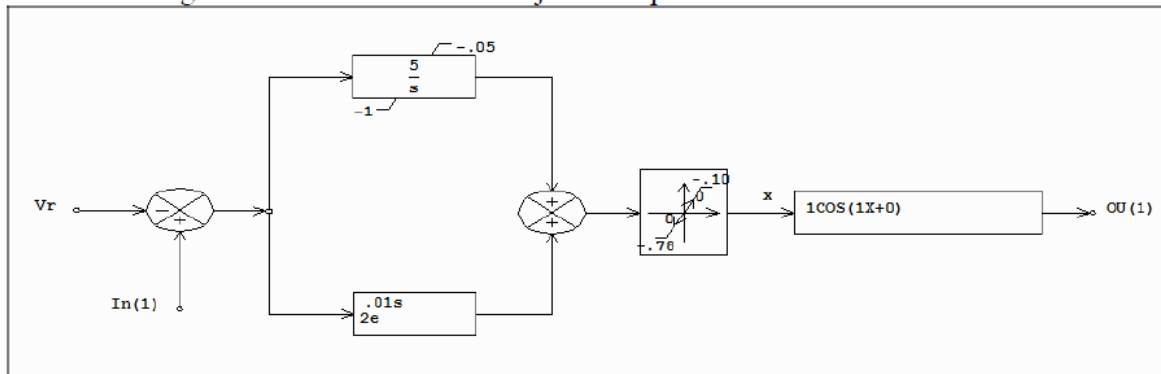
The variables are: please refer to on line help of PASHA for description of variables.

The UDEM controllers can be added to control the thyristors as shown below:

Constant current control for convertor: this is just a simplification of the actual controller



Constant voltage control for inverter: this is just a simplification of the actual controller



All the network calculation can now be performed.