

APPENDIX D

Load flow result using fast decouple method for 6-bus test system

Bus.	Volts pu	Angle deg.	PG(Mw)	QG(Mvar)	PL(Mw)	QL(Mvar)
1	1.0500	0.0000	107.8731	15.9570	0.0000	0.0000
2	1.0500	-3.6729	50.0000	74.3556	0.0000	0.0000
3	1.0700	-4.2753	60.0000	89.6267	0.0000	0.0000
4	0.9894	-4.1979	0.0000	0.0000	70.0000	70.0000
5	0.9854	-5.2790	0.0000	0.0000	70.0000	70.0000
6	1.0044	-5.9503	0.0000	0.0000	70.0000	70.0000

From Bus.i	To Bus.j	Pij (MW)	Pji (MW)	Qij (MVar)	Qji (MVar)
1	2	28.6886	-27.7837	-16.9509	9.9406
1	4	43.5842	-42.4967	17.8193	-22.3165
1	5	35.6003	-34.5268	7.8307	-16.7393
2	3	2.9304	-2.8901	-15.5168	2.2502
2	4	33.0918	-31.5867	44.9105	-46.2850
2	5	15.5148	-15.0168	13.1053	-20.0867
2	6	26.2490	-25.6657	9.6720	-18.8444
3	5	19.1170	-18.0235	20.2722	-28.6995
3	6	43.7732	-42.7698	59.6059	-59.2649
4	5	4.0832	-4.0470	-8.8847	-6.6499
5	6	1.6140	-1.5644	-12.5716	0.8628