Power Flow Solution

case9

System Summary

Object	Quantity
Bus	9
Generator	3
Committed Generator	2
Load	3
Fixed Load	3
Despatchable Load	0
Branch	9
Transformer	0

Attribute	P (MW)	Q (MVAr)
Total Gen Capacity	248.0	0.0
On-line Capacity	2.5	0.0
Generation (actual)	0.0	0.0
Load	3.1	1.1
Fixed	3.1	1.1
Despatchable	0.0	0.0
Losses	0.0	0.0
Branch Charging (inj)	0.0	0.0

Attribute	Minimum	Maximum
Voltage Amplitude	1.0	1.0
Voltage Phase Angle	0.0	0.0

Bus Data

Name	Voltage (pu)		Generation		Load	
	Amp	Phase	P (MW)	Q (MVAr)	P (MW)	Q (MVAr)
1	1.000	0.000	0.00	0.00	0.00	0.00
2	1.000	0.000	1.63	0.00	0.00	0.00
3	1.000	0.000	0.85	0.00	0.00	0.00
4	1.000	0.000	0.00	0.00	0.00	0.00
5	1.000	0.000	0.00	0.00	0.90	0.30
6	1.000	0.000	0.00	0.00	0.00	0.00
7	1.000	0.000	0.00	0.00	1.00	0.35
8	1.000	0.000	0.00	0.00	0.00	0.00
9	1.000	0.000	0.00	0.00	1.25	0.50
		Total:	248.00	0.00	3.15	1.15

Branch Data

Name	Source	Target	Source Bus Inj		Target Bus Inj		Loss (I^2 * Z)	
	Bus	Bus	P (MW)	Q (MVAr)	P (MW)	Q (MVAr)	P (MW)	(MVAr)
e	1	4	0.00	0.00	0.00	0.00	0.00	0.00
e_2	4	5	0.00	0.00	0.00	0.00	0.00	0.00
e_3	5	6	0.00	0.00	0.00	0.00	0.00	0.00
e_4	3	6	0.00	0.00	0.00	0.00	0.00	0.00
e_5	6	7	0.00	0.00	0.00	0.00	0.00	0.00
e_6	7	8	0.00	0.00	0.00	0.00	0.00	0.00
e_7	8	2	0.00	0.00	0.00	0.00	0.00	0.00
e_8	8	9	0.00	0.00	0.00	0.00	0.00	0.00
e_9	9	4	0.00	0.00	0.00	0.00	0.00	0.00
						Total:	0.00	0.00

Generator Data

Name	Bus	On	Voltage	Pg	Qg	Lambda ($/MVA-hr)		Coefficients	
				(MW)	(MVAr)	P	Q	c2	c1
g		1	1.00	0.00	0.00			0.11	5.0
g_2		1	1.00	1.63	0.00			0.09	1.2
g_3		1	1.00	0.85	0.00			0.12	1.0
			Total:	2.48	0.00				