

EE-308 Assignment-3

Newton Raphson Method

Details:

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Results:

Bus voltage magnitudes (in p.u.) and angles (in radians) after each iteration:
(From MATLAB command window)

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Iteration 1

Bus	Voltage	Angle
1	1.05	0
2	1	-0.11664
3	0.96146	-0.12567
4	0.973	-0.076584

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Iteration 2

Bus	Voltage	Angle
1	1.05	0
2	1	-0.12221
3	0.95755	-0.13171
4	0.96843	-0.078978

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Iteration 3

Bus	Voltage	Angle
1	1.05	0
2	1	-0.12224
3	0.95752	-0.13175
4	0.9684	-0.078987

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Iteration 4

Bus	Voltage	Angle
1	1.05	0
2	1	-0.12224
3	0.95752	-0.13175
4	0.9684	-0.078987

.....

Iteration 5

Bus	Voltage	Angle
1	1.05	0
2	1	-0.12224
3	0.95752	-0.13175
4	0.9684	-0.078987