

```

12 % Iterate until convergence
13 - while error > tolerance
14 -     iter = iter + 1;
15
16     % Voltage magnitude equations
17 -     Vm = V;
18 -     P = real(V.*conj(Ybus*V));
19 -     Q = imag(V.*conj(Ybus*V));
20 -     Fm = Vm.*(P - S(:,1))./Vm + Q - S(:,2);
21
22     % Jacobian matrix for voltage magnitude equations
23 -     dP_dVm = diag(P./Vm);
24 -     dQ_dVm = diag(Q./Vm);
25 -     Jm = dP_dVm + dQ_dVm - diag(Ybus*V)./Vm;
26
27     % Update voltage magnitude estimates
28 -     dVm = -Jm\Fm;
29 -     V = V + dVm;
30
31     % Voltage angle equations
32 -     Va = theta;
33 -     Faa = V.*(sin(Va)*imag(Ybus*V) - cos(Va)*real(Ybus*V));
34
35     % Jacobian matrix for voltage angle equations
36 -     dFaa_dVa = V.*(cos(Va)*imag(Ybus*V) + sin(Va)*real(Ybus*V));
37 -     Ja = diag(dFaa_dVa);
38
39     % Update voltage angle estimates
40 -     dVa = -Ja\Faa;
41 -     theta = theta + dVa;
42
43     % Calculate error
44 -     error = max(abs([dVm; dVa]));
45 - end
46
47 % Print results

```

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Turan Gonen



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