

```

    for c = 1:8
        if r ~= c
            sum = sum + Y(r,c)*V(c);
        end
    end
    V(r) = ((P(r) - 1i*Q(r))/conj(V(r)) - sum)/Y(r,r);
    sum=0;
end
end
V
%END OF ITERATION

%LINE FLOW CURRENTS
for r = 1:8
    for c = 1:8
        I(r,c) = -Y(r,c)*(V(r)-V(c));
    end
end
I
%END OF ITERATION

%LINE FLOW POWERS
for r = 1:8
    for c = 1:8
        S(r,c) = V(r)*conj(I(r,c));
    end
end
S
%END OF ITERATION

%LINE FLOW LOSSES
for r = 1:8
    for c = 1:8
        SL(r,c) = S(r,c)+S(c,r);
    end
end
SL
%END OF ITERATION

%TOTAL LOSSES
for r = 1:8
    TSL(r) = 0;
    for c = 1:8
        TSL(r) = TSL(r) + SL(r,c);
    end
end
TSL
%END

```

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