

EXP NO: 5

DATE:

FAULT ANALYSIS

AIM:

To become familiar with modeling and analysis of power systems under faulted condition and to compare the fault level, post-fault voltages and currents for different types of faults, both symmetric and unsymmetric.

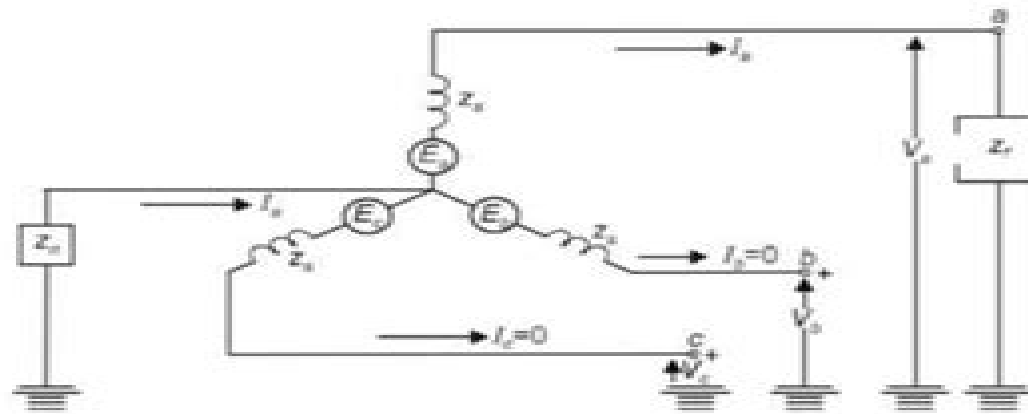
OBJECTIVES

To conduct fault analysis on a given system using software available and obtain fault analysis report with fault level and current at the faulted point and post-fault voltages and currents in the network for the following faults.

1. Line-to-Ground
2. Line-to-Line
3. Double Line-to-Ground

SINGLE LINE-TO-GROUND FAULT

$$\begin{aligned} I_b &= 0 \\ I_c &= 0 \\ V_a &= Z_f I_a \end{aligned}$$



Power System Simulation Simulation Lab Manual Matlab

**Wei Yao,Yongxin Xiong,Hongyu
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