

Experiment No. 1**OBJECTIVE**

Simulate Swing Equation in Simulink (MATLAB).

APPARATUS REQUIRED

MATLAB 7.8.0 (R2009-a).

THEORY

Swing equation being a non-linear equation, numerical methods are used to solve it. Point by Point method is one of the classical solutions to solve swing equation.

Below is a solution of swing equation for a machine connected to infinite bus through two parallel lines. Swing equation is drawn for a persisting fault in one of the parallel line and also after fault is cleared. Stability of system is concluded after analyzing the swing curve and clearing angle is calculated for system stability.

$f = 50$ Hz generator 50 MVA supplying 50 MW with inertia constant ' $H = 2.7$ MJ/MVA at rated speed. $E = 1.05$ pu, $V = 1$ pu, $X1 = X2 = 0.4$ pu. three phase fault at line 2.

- Plot swing curve for a sustained fault up to a time of 5 secs.
- Plot swing curve if fault is cleared by isolating line in 0.1 seconds.
- Find the critical clearing angle

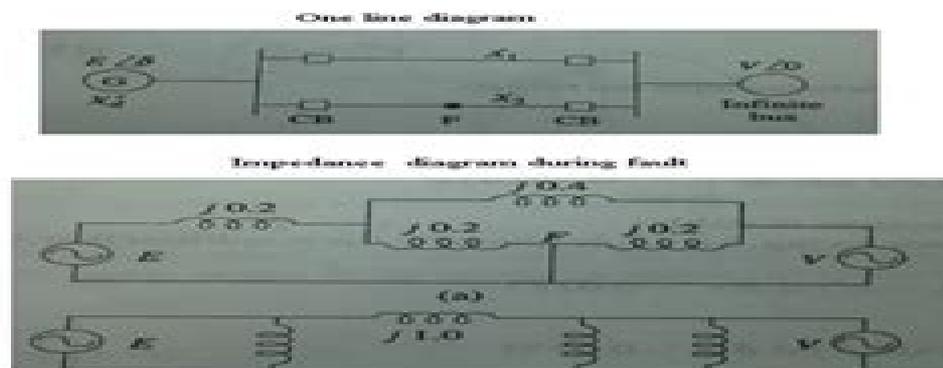


Fig1: One line diagram

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