

EXERCISE

A power system comprising a thermal generating plant with four 555 MVA, 24kV, 60HZ units supplies power to an infinite bus through a transformer and two transmission lines



FIG : Single Machine Infinite Bus System

The data for the system in per unit on a base of 2220 MVA, 24 kV is given below:

An equivalent generator representing the four units, characterized by classical model:

$$X_d' = 0.3 \text{ p.u}$$

$$H = 3.5 \text{ MW-s/MVA}$$

$$\text{Transformer: } X = 0.15 \text{ p.u}$$

$$\text{Line 1 : } X = 0.5 \text{ p.u}$$

$$\text{Line 2 : } X = 0.93 \text{ p.u}$$

Plant operating condition:

$$P = 0.9 \text{ p.u ; Power factor: } 0.9 \text{ lagging;}$$

$$E_t = 1.0 \text{ p.u}$$

It is proposed to examine the small-signal stability characteristics of the system given in this problem about the steady-state operating condition following the loss of line 2; Assume the damping coefficient $K_D = 1.5 \text{ p.u torque / p.u speed deviation}$.

(a) Write the linearized swing equation of the system. Obtain the characteristic equation, its roots, damped frequency of oscillation in Hz, damping ratio and undamped natural frequency. Obtain also the force-free time response $\Delta\delta(t)$ for an initial condition perturbation $\Delta\delta(0) = 5^\circ$ and $\Delta\omega(0)=0$, using available software.

Power System Simulation Lab Manual

Clifford Lane



Power System Simulation Lab Manual:

Decoding **Power System Simulation Lab Manual**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Power System Simulation Lab Manual**," a mesmerizing literary creation penned by a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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