

CHAPTER – 11: Power System Stability

11.1 Assume that three machines whose ratings and inertia constants are respectively given by G_1, H_1, G_2, H_2 , and G_3, H_3 are operating in synchronism, that is

$$\begin{aligned}\frac{G_1 H_1}{G_s \pi f} \frac{d^2 \delta_1}{dt^2} &= (P_{m1} - P_{e1}) \frac{G_1}{G_s} \\ \frac{G_2 H_2}{G_s \pi f} \frac{d^2 \delta_2}{dt^2} &= (P_{m2} - P_{e2}) \frac{G_2}{G_s} \\ \frac{G_3 H_3}{G_s \pi f} \frac{d^2 \delta_3}{dt^2} &= (P_{m3} - P_{e3}) \frac{G_3}{G_s}\end{aligned}$$

Since the machines are swinging coherently, $\delta_1 = \delta_2 = \delta_3 = \delta$. Thus ,

$$\left(\frac{G_1 H_1}{G_s} + \frac{G_2 H_2}{G_s} + \frac{G_3 H_3}{G_s} \right) \frac{1}{\pi f} \frac{d^2 \delta}{dt^2} = (P_{m1} + P_{m2} + P_{m3}) - (P_{e1} + P_{e2} + P_{e3}) \frac{G_1}{G_s}$$

$$\frac{H_{eq}}{\pi f} \frac{d^2 \delta}{dt^2} = P_{meq(pu)} - P_{eq(pu)}$$

$$\text{where } H_{eq} = \left(\frac{G_1 H_1}{G_s} + \frac{G_2 H_2}{G_s} + \frac{G_3 H_3}{G_s} \right)$$

$$H_{eq} = \left(\frac{G_1 H_1}{G_s} + \frac{G_2 H_2}{G_s} + \frac{G_3 H_3}{G_s} \right)$$

$$\approx 200 \times 4/1000 + 500 \times 3/1000 + 750 \times 5/1000 = 6.05 \text{ MVJ/MVA}$$

$$M = \frac{GH}{180 \times f} = 1000 \times 6.05 / (180 \times 50) = 0.6722 \text{ MJ-sec/elect-deg}$$

11.2 Synchronous speed $\omega = 2\pi \times \frac{2 \times 50}{2} \text{ rads/sec} = 314.16 \text{ rads/sec}$

$$\text{KE} = 1/2 \times 750000 \times (314.1593)^2 \times 10^{(-6)} = 3.7011 \times 10^3 \text{ MJ}$$

$$H = (3.7011 \times 10^3) / 250 = 14.8044 \text{ MJ/MVA}$$

$$M = 250 \times 14.8044 / (180 \times 50) = 0.4112 \text{ MJ-sec/elec. deg}$$

11.3

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