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

$$\frac{G_1 H_1}{G_s \pi f} \frac{d^2\delta_1}{dt^2} = (P_{i1} - P_{a1})\frac{G_1}{G_s}$$

$$\frac{G_2 H_2}{G_s \pi f} \frac{d^2\delta_2}{dt^2} = (P_{i2} - P_{a2})\frac{G_2}{G_s}$$

$$\frac{G_3 H_3}{G_s \pi f} \frac{d^2\delta_3}{dt^2} = (P_{i3} - P_{a3})\frac{G_3}{G_s}$$

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

$$\left(\frac{G_1 H_1}{G_s} + \frac{G_2 H_2}{G_s} + \frac{G_3 H_3}{G_s}\right)\frac{1}{\pi f}\frac{d^2\delta}{dt^2} = (P_{i1} + P_{i2} + P_{i3}) - (P_{a1} + P_{a2} + P_{a3})\frac{G_1}{G_s}$$

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

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

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

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

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

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

KE = 1/2*75000*(314.1593)^2*10^(-6) = 3.7011e+003 MJ

H = (3.7011e+03)/250 = 14.8044 MJ/MVA

M = 250*14.8044/(180*50) = 0.4112 MJ-sec/elec. deg

11.3

Solutions Manual Stability

Alen Hadzovic

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