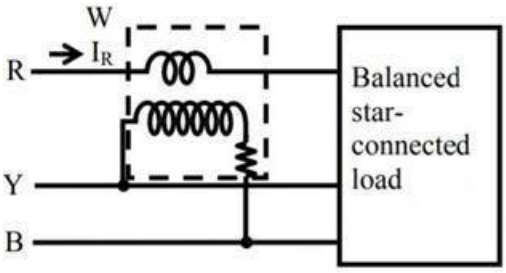
Lecture 50

1. **Calculate the reading of the wattmeter (W) connected as shown in Fig below. The load is a balanced star-connected one, with impedance of (20+j15) Ω per phase, fed from a three-phase, 400 V, balanced supply, with the phase sequence as R-Y-B.**



2. Calculate the reading of the two watt-meters (W1, and W2) connected to measure the power for a balanced three-phase load. The supply voltage is 200V for a star- connected balanced load with (9-j5) Ω per phase. The connections of the wattmeter, W1 – current coil is in R line, and the voltage coil is across R and Y lines. The connections of the wattmeter, W2 – current coil is in B line, and the voltage coil is across B and Y lines.