

The method given in [19] allows the determination of the core loss from the measured data under non-sinusoidal excitation without artificial separation of the hysteresis and eddy current losses. Harmonic components are taken into account. The computed results are compared with the IEC method.

A voltage regulator with a large capacitor bank is better than a conventional rotating machine source from the point of view of getting as sinusoidal voltage as possible for core loss measurements.

The no-load loss test and the calculation of parameters of shunt branch of the equivalent circuit of a transformer have been elaborated in Chapter 1. Now, special topics/case studies related to the no-load test are discussed.

### 2.5.1 Asymmetrical magnetizing phenomenon

Unlike in a bank of three single-phase transformers having independent magnetic circuits, a three-phase three-limb transformer has interlinked magnetic circuit. The excitation current and power drawn by each phase winding are not the actual current and power required by the corresponding magnetic sections of the core. The current drawn by each phase winding is determined by the combination of requirements of all the three core branches. Consider a three-phase three-limb core shown in figure 2.7. Let the magnetomotive force required to produce instantaneous values of fluxes ( $\phi_x$ ,  $\phi_y$  and  $\phi_b$ ) in the path between points P<sub>1</sub> to P<sub>2</sub> for the phase windings ( $r$ ,  $y$  and  $b$ ) be  $NI_x$ ,  $NI_y$  and  $NI_b$  respectively. There is an inherent asymmetry in the core as the length of magnetic path of winding  $y$  between the points P<sub>1</sub> and P<sub>2</sub> is less than that of windings  $r$  and  $b$ . Let the actual currents drawn be  $I_x$ ,  $I_y$  and  $I_b$ .



Figure 2.7 Three-phase three-limb core with Y connected primary

# Transformer Engineering Design And Practice

**ML Yell**



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