

2.2 IMPEDANCE AND REACTANCE DIAGRAMS

The one-line diagram may serve as the basis for a circuit representation that includes the equivalent circuits of the components of the power system. Such a representation is called an *impedance diagram*, or a *reactance diagram* if resistances are neglected. The impedance and reactance diagrams corresponding to Fig. 2-2 are shown in Fig. 2-3(a) and (b), respectively. Note that only a single phase is shown.

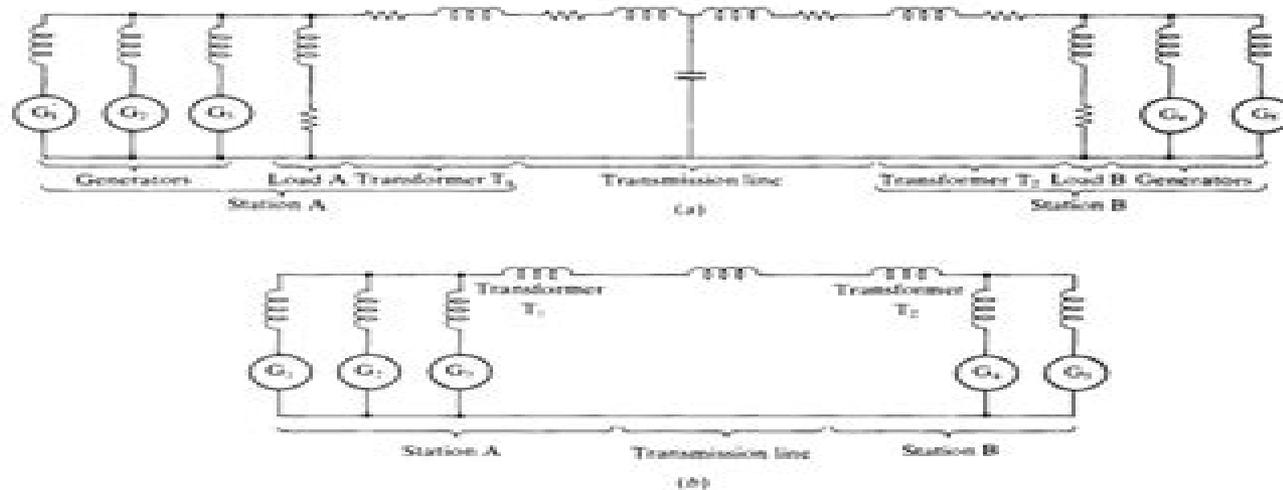


Fig. 2-3.

The following assumptions have been incorporated into Fig. 2-3(a):

1. A generator can be represented by a voltage source in series with an inductive reactance. The internal resistance of the generator is negligible compared to the reactance.
2. The loads are inductive.
3. The transformer core is ideal, and the transformer may be represented by a reactance.
4. The transmission line is a medium-length line and can be denoted by a T circuit. An alternative representation, such as a π circuit, is equally applicable.
5. The delta-wye-connected transformer T_1 may be replaced by an equivalent wye-wye-connected transformer (via a delta-to-wye transformation) so that the impedance diagram may be drawn on a per-phase basis.

(The exact nature and values of the impedances or reactances are determined by methods discussed in later chapters.)

The reactance diagram, Fig. 2-3(b), is drawn by neglecting all resistances, the static loads, and the capacitance of the transmission line.

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