

FIGURE 2.1

Per-phase representation of short transmission line.

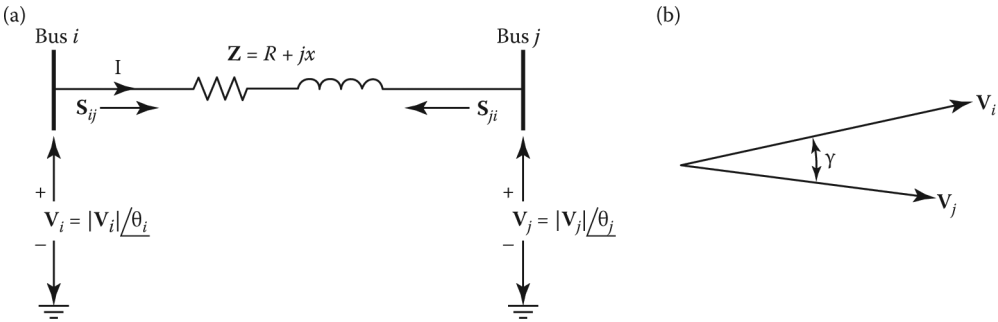


FIGURE 2.2

Power system representations: (a) one-line diagram; (b) three-phase equivalent impedance diagram; (c) equivalent impedance diagram per phase.

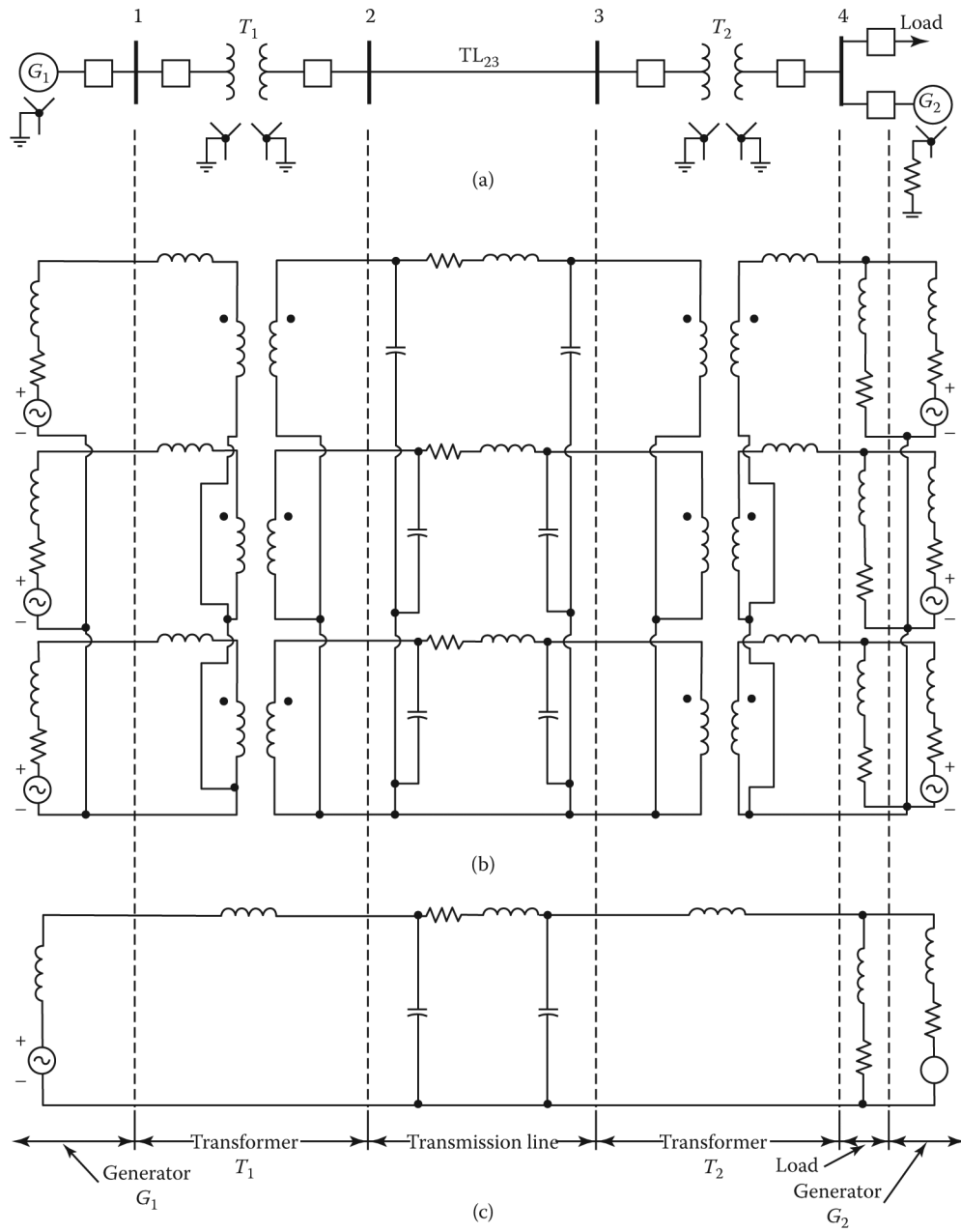


FIGURE 2.3

Conventional three-phase transformer connections: (a) wye–wye connection; (b) delta–delta connection; (c) wye–delta connection; (d) delta–wye connection.

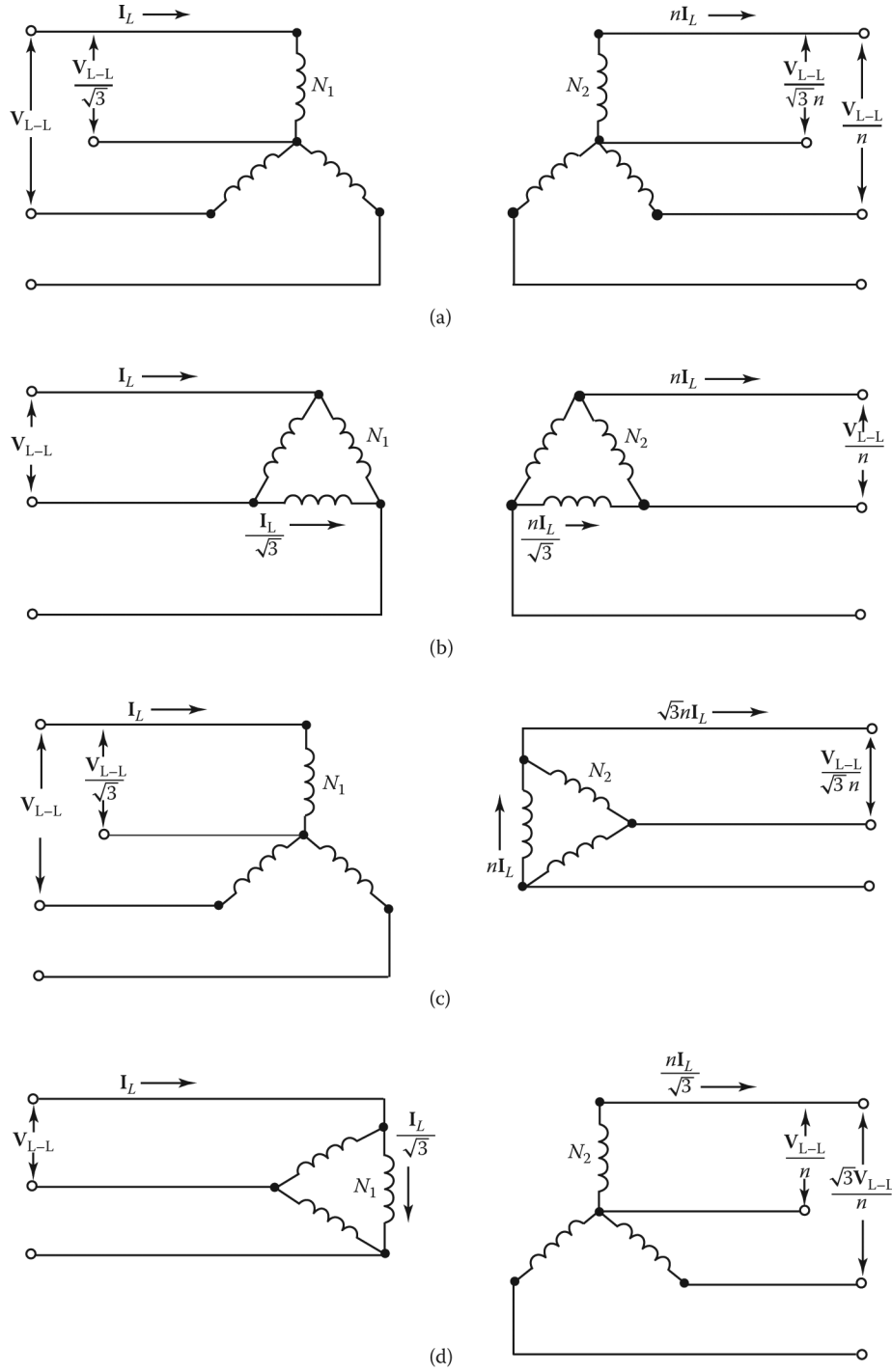


FIGURE 2.4

One-line diagram for Example 2.4.



FIGURE 2.5

Load representations as: (a) real and reactive powers; (b) constant impedance in terms of series combination; (c) constant impedance in terms of parallel combination.

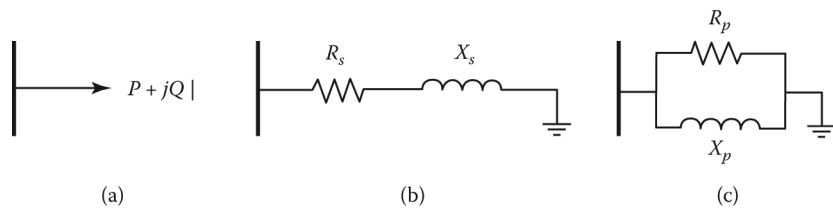


FIGURE 2.6

Single-phase, three-winding transformer: (a) winding diagram; (b) equivalent circuit.

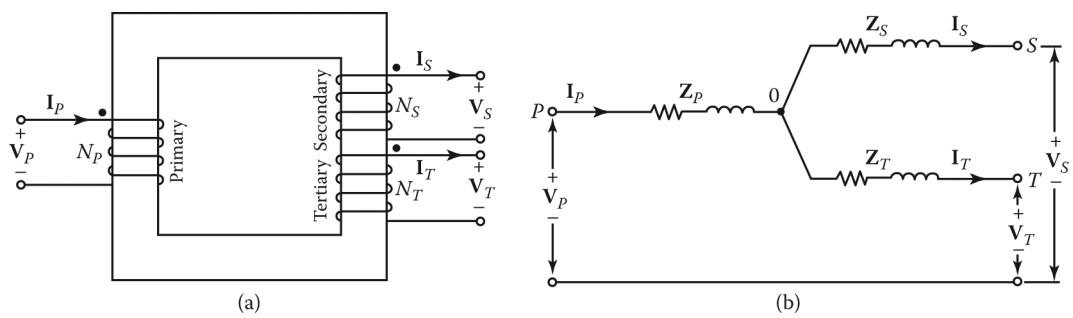


FIGURE 2.7

Schematic diagram of ideal (step-down) transformer connected as: (a) two-winding transformer; (b) autotransformer.

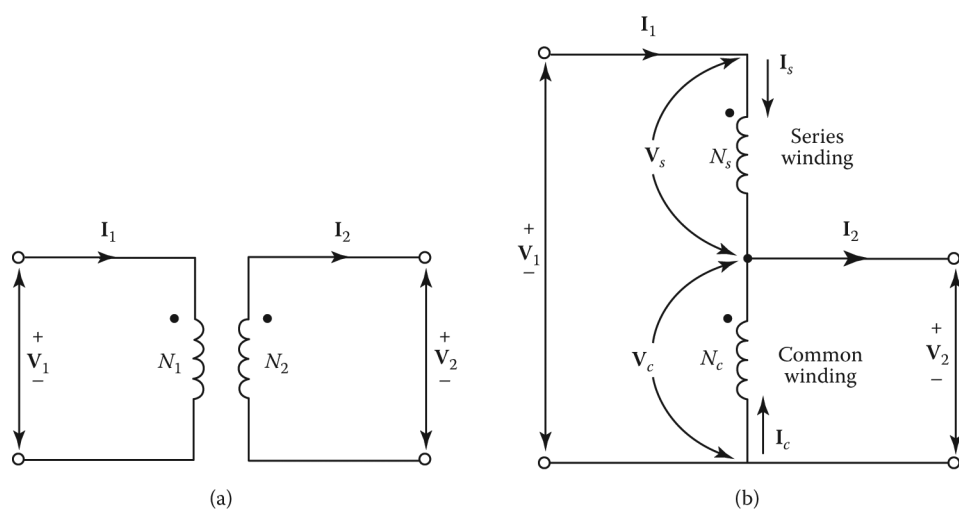


FIGURE 2.8

Delta–wye or wye–delta transformations.

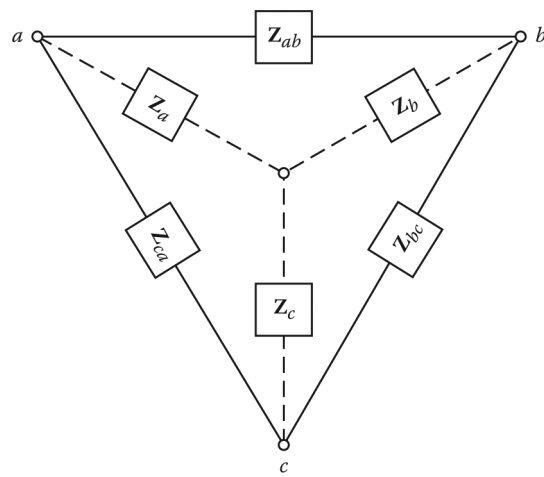


FIGURE P2.1

One-line diagram for Problem 2.10.

