

Concept Question 10-7: What conditions must apply in order to use the equivalent single-phase method? What advantage does it offer?

If a three-phase network is balanced, it can be divided into three separate single-phase networks, thereby simplifying the analysis.

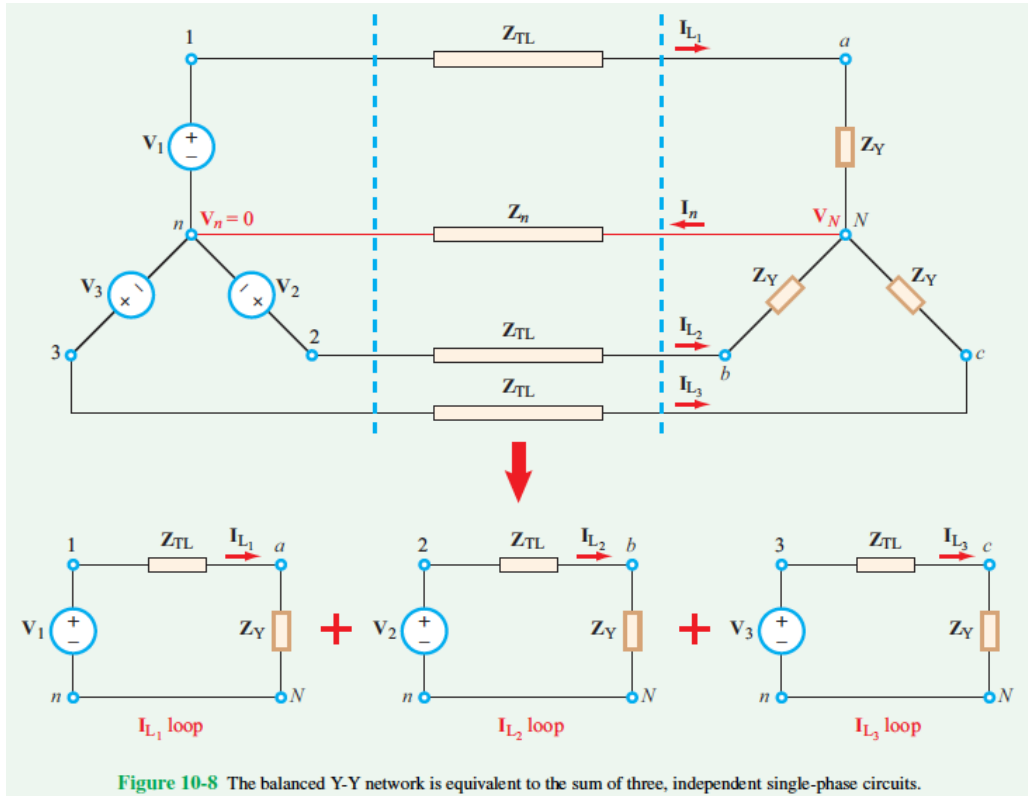


Figure 10-8 The balanced Y-Y network is equivalent to the sum of three, independent single-phase circuits.