

Network Theory By Alexander Sadiku Pdf Free Download

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MODULE 1 (A)  
BASIC CONCEPTS

In many of the network, impedances are neither connected in series nor in parallel and hence the network can't be simplified using series or parallel combination of impedance. In such cases, star-delta or delta-star transformation is used.

Y-connected

Δ-connected

+ve sequence network  $\rightarrow$  ABC / RYB  
-ve sequence network  $\rightarrow$  ACB / RBY

In equivalent impedance b/w the terminals A and B with terminal C open for both the network and equating them, we get :-

$$Z_{AB} + Z_B = Z_{AB} \parallel (Z_{BC} + Z_{CA})$$

$$\Rightarrow Z_A + Z_B = Z_{AB} \times (Z_{CA} + Z_{BC})$$

$$\Rightarrow Z_{AB} + Z_{BC} + Z_{CA} \quad \text{--- (1)}$$

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