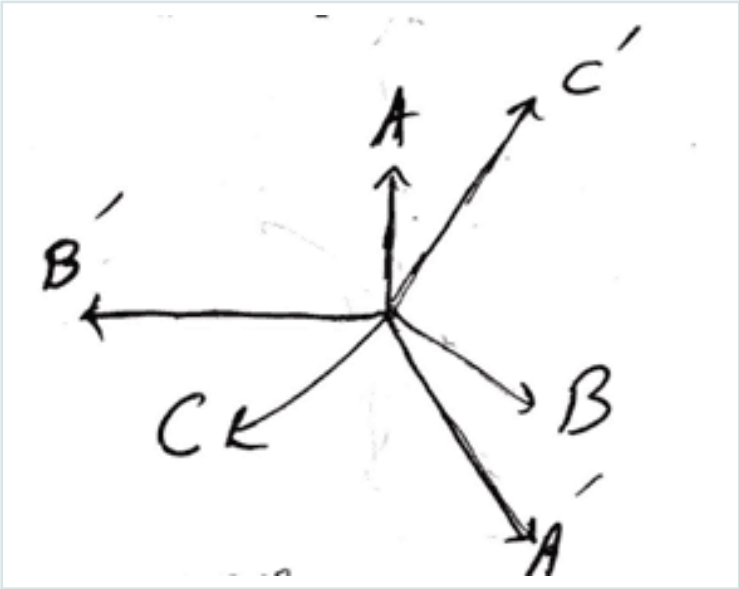
Sıfır Bileşeninin Giderilmesi

Kategory	**tester**
Bölüm	**AMT Diferansiyel Modülü**
Dil	**Türkçe**
Oluşturuldu	**2026-11-04**



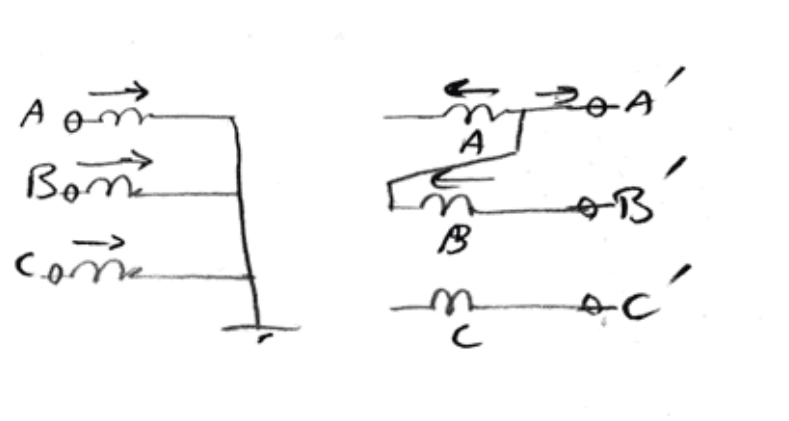
Şekil 1

$$A' = B - A$$

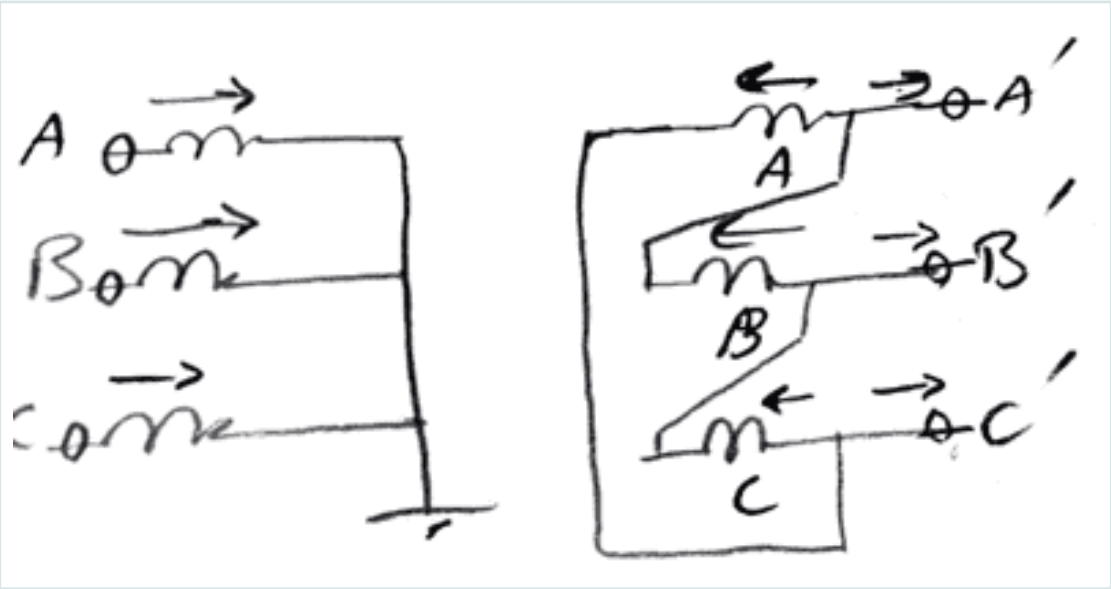
$$B' = C - B$$

$$C' = A - C$$

Şekil 2



Şekil 3



Şekil 4

$$\begin{bmatrix} IA \\ IB \\ IC \end{bmatrix} = \begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{bmatrix} \begin{bmatrix} A \\ B \\ C \end{bmatrix}$$

Şekil 5

$$\begin{bmatrix} I_a^{**} \\ I_b^{**} \\ I_c^{**} \end{bmatrix} = \frac{2}{3} \cdot \begin{bmatrix} \cos[k \cdot 30°] & \cos[(k+4) \cdot 30°] & \cos[(k-4) \cdot 30°] \\ \cos[(k-4) \cdot 30°] & \cos[k \cdot 30°] & \cos[(k+4) \cdot 30°] \\ \cos[(n+4) \cdot 30°] & \cos[(k-4) \cdot 30°] & \cos[k \cdot 30°] \end{bmatrix} \cdot \begin{bmatrix} I_a^{*} \\ I_b^{*} \\ I_c^{*} \end{bmatrix}$$

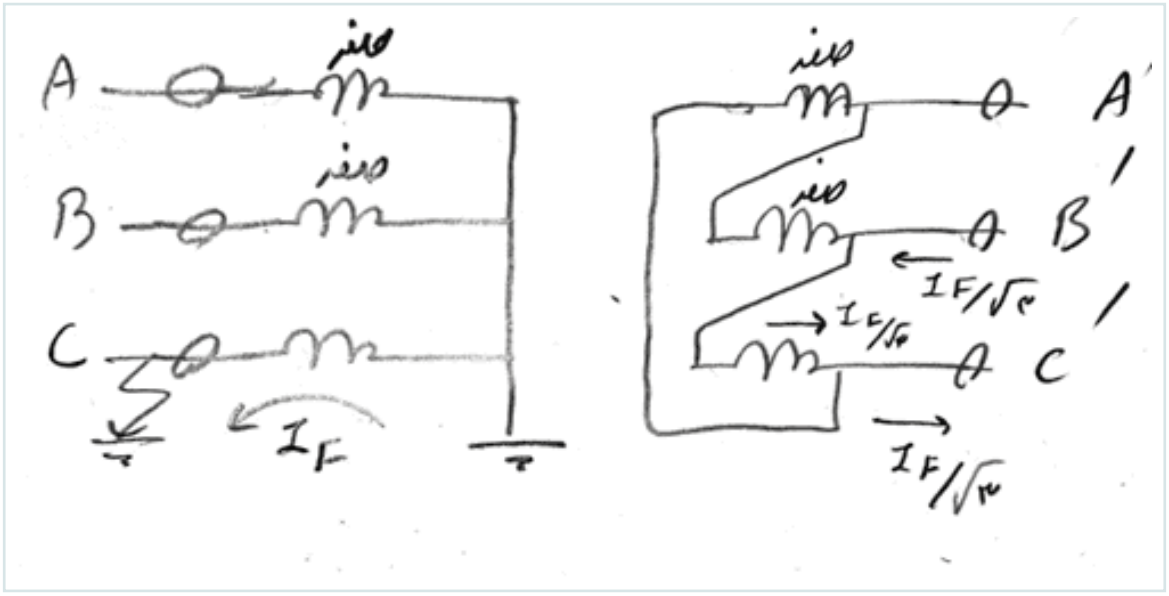
Şekil 6

$$\begin{bmatrix} IA' \\ IB' \\ IC' \end{bmatrix} = \frac{1}{\sqrt{3}} \begin{bmatrix} -1 & 0 & 1 \\ 1 & -1 & 0 \\ 0 & 1 & -1 \end{bmatrix} \begin{bmatrix} A' \\ B' \\ C' \end{bmatrix}$$

Şekil 7

$$\frac{V1}{V2} = \frac{n1}{n2} \Rightarrow \frac{\frac{V}{\sqrt{3}}}{V} = \frac{n1}{n2} \Rightarrow \frac{n1}{n2} = \frac{1}{\sqrt{3}} \Rightarrow \frac{n1}{n2} = \frac{I2}{I1} = \frac{1}{\sqrt{3}} \Rightarrow I2 = \frac{I1}{\sqrt{3}}$$

Şekil 8



Şekil 9

$$\begin{bmatrix} IA \\ IB \\ IC \end{bmatrix} = \begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{bmatrix} \begin{bmatrix} 0 \\ 0 \\ -IF \end{bmatrix} \Rightarrow \begin{bmatrix} IA \\ IB \\ IC \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \\ -IF \end{bmatrix}$$

$$\begin{bmatrix} IA' \\ IB' \\ IC' \end{bmatrix} = \frac{1}{\sqrt{3}} \begin{bmatrix} -1 & 0 & 1 \\ 1 & -1 & 0 \\ 0 & 1 & -1 \end{bmatrix} \begin{bmatrix} 0 \\ \frac{IF}{\sqrt{3}} \\ -\frac{IF}{\sqrt{3}} \end{bmatrix} \Rightarrow \begin{bmatrix} IA' \\ IB' \\ IC' \end{bmatrix} = \begin{bmatrix} -\frac{IF}{3} \\ -\frac{IF}{3} \\ \frac{2*IF}{3} \end{bmatrix}$$

Şekil 10

$$\begin{bmatrix} Diff(A) \\ Diff(B) \\ Diff(C) \end{bmatrix} = \begin{bmatrix} \frac{IF}{3} \\ \frac{IF}{3} \\ \frac{IF}{3} \end{bmatrix}$$

Şekil 11

$$IA = IA - \frac{IA + IB + IC}{3}$$

$$IB = IB - \frac{IA + IB + IC}{3}$$

$$IC = IC - \frac{IA + IB + IC}{3}$$

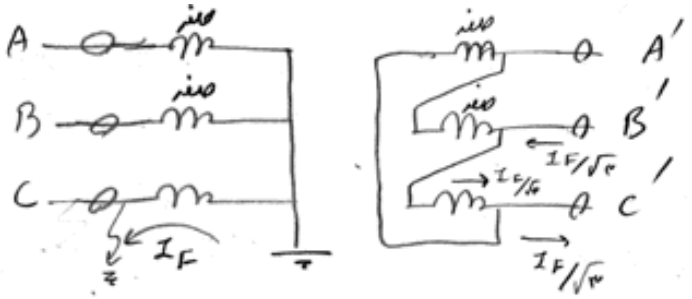
Şekil 12

$$\begin{bmatrix} IA \\ IB \\ IC \end{bmatrix} = \frac{1}{3}\begin{bmatrix} 2 & -1 & -1 \\ -1 & 2 & -1 \\ -1 & -1 & 2 \end{bmatrix}\begin{bmatrix} A \\ B \\ C \end{bmatrix} \Rightarrow \begin{bmatrix} IA \\ IB \\ IC \end{bmatrix} = \begin{bmatrix} \frac{IF}{3} \\ \frac{IF}{3} \\ -\frac{2IF}{3} \end{bmatrix}$$

Şekil 13

$$\begin{bmatrix} Diff(A) \\ Diff(B) \\ Diff(C) \end{bmatrix} = \left| \begin{bmatrix} \frac{IF}{3} \\ \frac{IF}{3} \\ \frac{-2IF}{3} \end{bmatrix} + \begin{bmatrix} -\frac{IF}{3} \\ -\frac{IF}{3} \\ \frac{2IF}{3} \end{bmatrix} \right| = \begin{bmatrix} 0 \\ 0 \\ 0 \end{bmatrix}$$

Şekil 14



$$\begin{bmatrix} IA \\ IB \\ IC \end{bmatrix} = \frac{1}{3} \begin{bmatrix} 2 & -1 & -1 \\ -1 & 2 & -1 \\ -1 & -1 & 2 \end{bmatrix} \begin{bmatrix} 0 \\ 0 \\ 0 \end{bmatrix} \Rightarrow \begin{bmatrix} IA \\ IB \\ IC \end{bmatrix} = [0]$$

Şekil 15

$$\begin{bmatrix} Diff(A) \\ Diff(B) \\ Diff(C) \end{bmatrix} = \left| \begin{bmatrix} 0 \\ 0 \\ 0 \end{bmatrix} + \begin{bmatrix} -\frac{IF}{3} \\ -\frac{IF}{3} \\ \frac{2IF}{3} \end{bmatrix} \right| = \begin{bmatrix} \frac{IF}{3} \\ \frac{IF}{3} \\ \frac{2IF}{3} \end{bmatrix}$$

Şekil 16