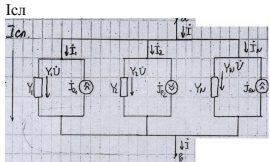


19. Преобр. на парал съед. елем



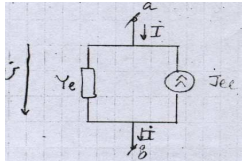
Посоката на тока през пасивния ел-т. съвпада с посоката на напрежението  
От I закон на К.

$$\sum_k \dot{I}_k = \sum_k \dot{J}_{ek} \cdot Y_e = \sum_{k=1}^n Y_k$$

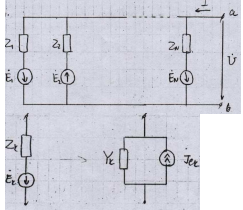
$$\dot{J}_{ee} = \sum_{k=1}^n \dot{J}_{ek}$$

$$\dot{I} = Y_e \dot{U} = \dot{J}_{ee}$$

От това равенство съответства следната еkv. зам. схема



II сл.

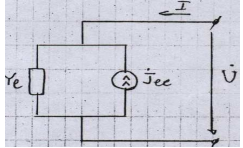


$$\dot{J}_{ek} = \frac{\dot{E}_k}{Z_e}$$

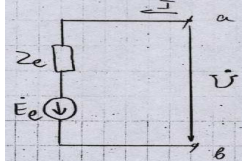
$$Y_k = \frac{1}{Z_k}$$

$$Y_{ek} = \sum_{k=1}^n Y_k = \sum_{k=1}^n \frac{1}{Z_k}$$

$$\dot{J}_{ee} = \sum_{k=1}^n \dot{J}_{ek} = \sum_{k=1}^n \frac{\dot{E}_k}{Z_k}$$



от горе става долу



$$\dot{E}_e = \frac{\dot{E}_1}{Z_e} - \frac{\dot{E}_2}{Z_2} + \dots + \frac{\dot{E}_n}{Z_n}$$

$$= \frac{1}{Z_1} + \frac{1}{Z_2} + \dots + \frac{1}{Z_n}$$