

B.8.3

(Continue from chapter B.8-2)

Result of Symmetrical Components analysis was

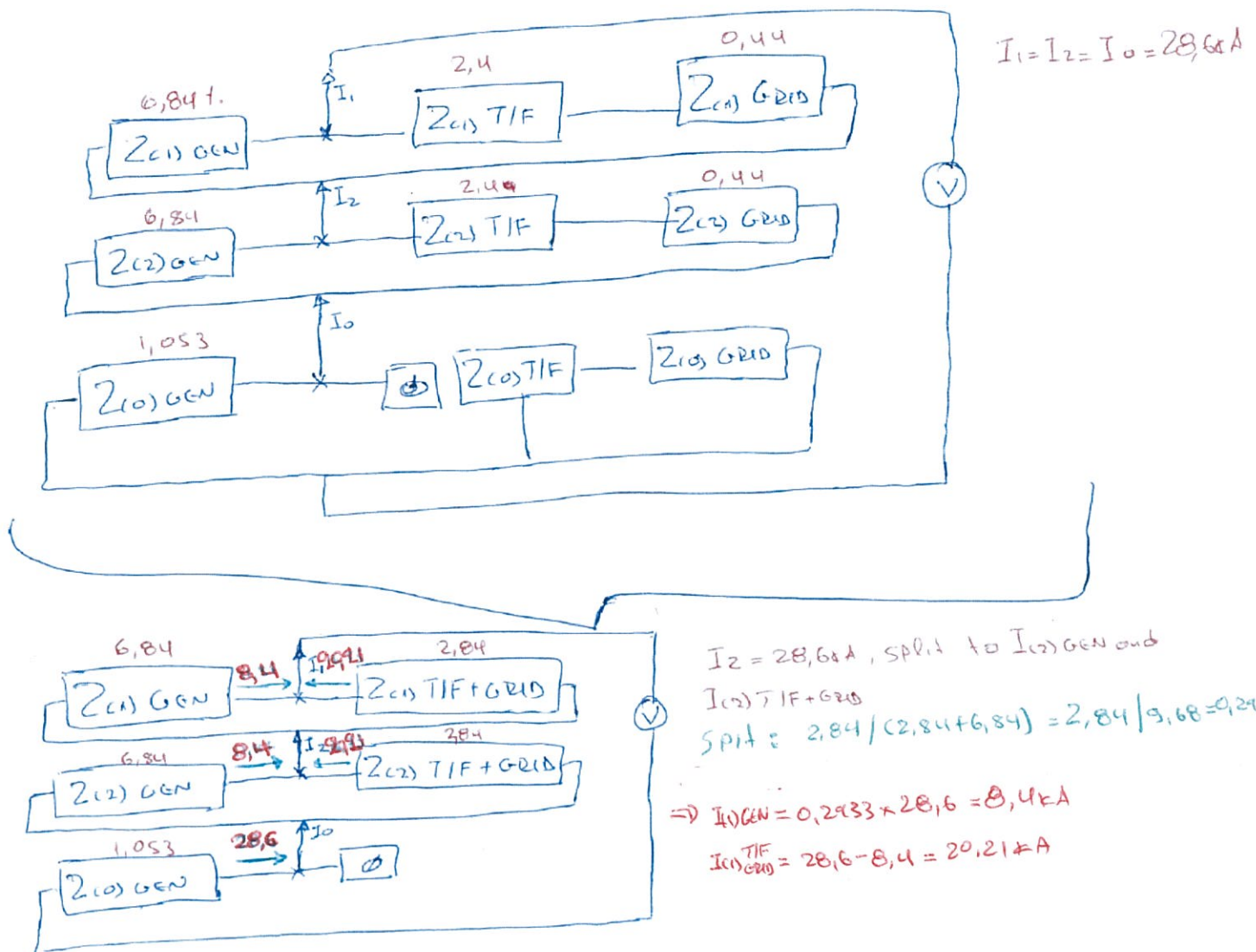
$$I_{total} = I_1 = I_2 = I_0 = 28,6 \text{ kA} \quad (= 1/3 I_k'')$$

~~and~~

~~and~~

~~and~~

Going back to scheme 1 of previous chapter :



$I_2 = 28,6 \text{ kA}$, split to $I_{c2} \text{ GEN}$ and $I_{c2} \text{ TIF+GRID}$
 Split : $2,84 / (2,84 + 6,84) = 2,84 / 9,68 = 0,293$

$$\Rightarrow I_{c2 \text{ GEN}} = 0,293 \times 28,6 = 8,4 \text{ kA}$$

$$I_{c2 \text{ GRID}} = 28,6 - 8,4 = 20,21 \text{ kA}$$

	Generator Side	Grid Side + TIF	
I_1	8,4	20,21	28,6
I_2	8,4	20,21	28,6
I_0	28,6	ϕ 21	28,6
Total	45,4 kA	40,42	85,8
	VS 46 kA ETAP	VS 40,5 kA ETAP	86,5
			ETAP