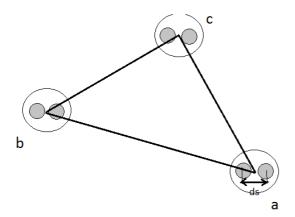
2. MI – 2010/11

1. zadatak



r = 14 mm ds = 20 cm Dab = 13 m

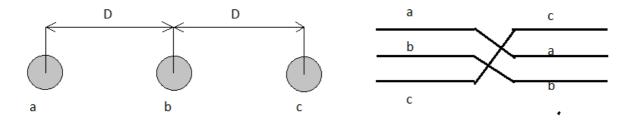
Dac = 8 m

Dbc = 11 m

f = 50 Hz

- a) Odrediti Xa, Xb i Xc neprepletenog voda.
- b) Odrediti X1 prepletenog voda.

2. zadatak



D = 15.5 m r = 16 mm

Odredite La, Lb i Lc.

3. zadatak

Zadana je matrica za neprepleteni vod:

$$[B^{abc}] = \begin{bmatrix} 31.188 & -3.908 & -6.743 \\ -3.908 & 29.668 & -5.606 \\ -6.743 & -5.606 & 29.816 \end{bmatrix} \cdot 10^{-7} \left[\frac{S}{km} \right]$$

Odredi B0, B1, C0 i C1 za prepleteni vod.

4. zadatak

Zadani su sljedeći podaci (koordinate uključuju i izolatore i sve):

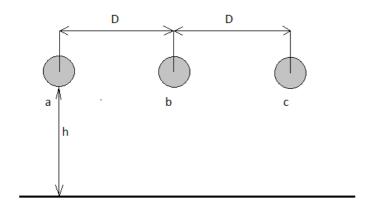
Br. vodiča	Vodič	R[ohm/km]	d[mm]	x[m]	y[m]
1	а	0.089	26	6.5	16
2	b	0.089	26	-5.5	20
3	С	0.089	26	4.5	24
4	Р	1.523	12.5	0	37.3

Također je zadan i ho= 150 ohm m.

Odredite za prepleteni vod matricu $[Z^{abc}]$.

5. zadatak

Zadana je slika:



D = 12.5 m

h = 15 m

r = 14 mm

Odredite dozemni kapacitet Cz.