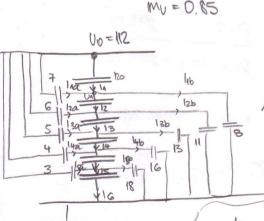
Izolatorski lanac ovog dalekavada hma 6 člancka (ishih kapaciteta > 120 pF)
kapaciteti metalnih dijelova lanca prema vadičn iznose 3,4,5,6,7 pF,
a prema vzemljenim djelovina 8,11,13,16 i 18 pF, majlhiži nzemljenom!
a) adredite koji izalatorski zlanak je majmanje opterećen 1 koliko je
to opterećenje?

b) na tojoj nuim. naponstoj usini će se popurti torona na avom vodičn Om n.v. -> 20°C

2000 M N.U. > 0°C



 $\begin{array}{l} |A + I_{10} = \frac{1}{120} I_{2} + I_{10} =) & 120 \left(1M2 - U_{1} \right) + 7 \left(112 - U_{1} \right) = 120 \left(U_{1} - U_{2} \right) + 8UA \\ |I_{2} + I_{20} = I_{3} + I_{20} =) & 120 \left(U_{1} - U_{2} \right) + 6 \left(1M2 - U_{2} \right) = 120 \left(U_{2} - U_{3} \right) + 11 U_{2} \\ |I_{3} + I_{30} = I_{4} + I_{30} =) & 120 \left(U_{2} - U_{3} \right) + 5 \left(112 - U_{3} \right) = 120 \left(U_{3} - U_{4} \right) + 13U_{3} \\ |I_{4} + I_{40} = I_{5} + I_{40} =) & 120 \left(U_{3} - U_{4} \right) + 4 \left(112 - U_{4} \right) = 120 \left(U_{4} - U_{5} \right) + 16U_{4} \\ |I_{5} + I_{50} = I_{6} + I_{50} =) & 120 \left(U_{6} - U_{5} \right) + 3 \left(112 - U_{5} \right) = 120 U_{5} + 18 U_{5} \end{array}$

 $\int_{-\frac{\pi}{2}}^{\frac{\pi}{2}} = \frac{\pi}{2} = \lim_{x \to \infty}^{\frac{\pi}{2}} = \lim_{x \to$

→ 5 jednadižbi S 5 mepoznamica 81B

255U1-120 Uz = 14225

-120 U1 + 87U2 -120 U3 = 672

-120 Uz + 258 Uz - 120 U4 = 560

-120 Uz +260 U4-120 US = 448

-120 U4 +261 U5 = 336

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Jeduszlini an tabel prity'uten je na napom 10.7/
$$\sqrt{3}$$
 kV pogousta
fiduencija, dug 6.1 km; ima 2 razvita arelechita:
 $E_{11} = 3.4$ tg $e_{11} = 1.2 \cdot 10^{-3}$
 $e_{12} = 2.3$ tg $e_{21} = 1.4 \cdot 10^{-3}$
 $e_{13} = 12$ mm

a) toliko djelature i jodare surge most kadel? b) odnedite hojbech injednost elipoja u takeln?

Paralacija se modenša sa (rom

$$C_1$$
 C_2 - mapon je komst.

 $Q = C \cdot U = komst.$
 $Q = Pg_1 + Pg_2$ $U^2 = \frac{Q^2}{C^2}$
 $tgS = \frac{1r}{|C|}$

Pg=Ulr=U.lc.tgS=U.U.wC.tgS

$$u^2wc$$
 tg $S = u^2wc$ ntg $S_1 + u^2wc$ ntg S_2

$$\frac{\partial^2}{\partial z}wc$$
tg $S = \frac{\partial^2}{\partial z}wc$ ntg $S_1 + \frac{\partial^2}{\partial z}wc$ ntg S_2

$$\frac{tg}{c} = \frac{tg}{c} + \frac{tg}{c}$$

$$Q = \int \vec{D} d\vec{S}$$

$$\int \vec{E} d\vec{S} + \frac{Q}{\epsilon_0 \epsilon_1}$$
oplosje valjka 20T. Q

$$E = \frac{Q}{2\pi r l \epsilon_0 \epsilon_r}$$

$$U = \int \frac{E}{2\pi l \epsilon_0 \epsilon_r} dr = \frac{Q}{2\pi l \epsilon_0 \epsilon_r} \cdot lu \frac{r^2}{r^2}$$

2

$$C_1 = \frac{2\pi \epsilon_0 \epsilon_{11} \ell}{\ln \frac{d^2}{d^2}} \qquad C_2 = \frac{2\pi \epsilon_0 \epsilon_{12} \ell}{\ln \frac{f_3}{f_2}}$$

$$C_1 = 3,778 \cdot 10^{-6} F$$
 $C_2 = 3.361 \cdot 10^{-6} F$

$$C = \frac{C_1 C_2}{C_1 + C_2} = 1.773 \cdot 10^{-6} F$$

$$Q_g = \frac{rg}{tgS} = 21.259 \text{ EVAr}$$

$$U_{13} - \mu cupmi mapon$$

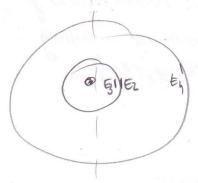
$$U_{13}$$

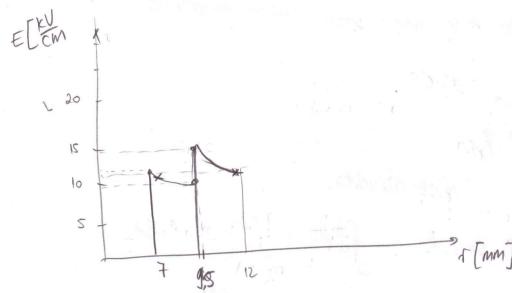
ousuo onjedu XD o supjetvu

$$E_{\Lambda}(f_{\Lambda}) = \frac{10700 |f_{3}|}{3.4 \cdot 0.7 \text{ cm} \left(\frac{1}{24} \text{ m}\right)} = 13.562 \text{ ky/cm}$$

$$F_2(\tau_2) = \frac{1}{2}$$

- madauje na sliku





$$E_3 = \frac{u_{13}}{\varepsilon_{71} \cdot \tau_2 \cdot s} = 9.99 \frac{\varepsilon V}{c_m}$$

U molaciji idosupnog kabela postoji mala nalljinost. Duljina kabela je , radyës 1 = 1,45 cm, a radijus uzembenog metalnog plasta $t_2 = 3.5$ om ; $\epsilon_T = 3$; austoca $f = f_1(\frac{m_1}{T})^2$ $S_1 = 12$ mAs/cm³ Na login potencialm de se madi modic makon intrapéonya pogowskog napona. ds.dr ffdv = f Dds of gloge aliudra D. 2711 = 68 dV = SF. 2711 dr = Sn. (1) 217 Aldr = = fn. mi, 2Tl. j.d. = = 1, vn : 271. In t $D = \{ \mathcal{S}_{1}, \mathcal{T}_{1}^{2}, \mathcal{U}_{1}, \mathcal{T}_{1}^{2} \}$ E = 8 Er 7-80 Er U= SEDT = STATE PATA ON TESET pd on cho of polye

$$= -\frac{S_1 N_2^2}{\epsilon_0 \epsilon_r} \int t dt = \frac{S_1 N_1^2}{\epsilon_0 \epsilon_r} \frac{t^2}{2} = \frac{S_$$

$$U = \frac{\int_{1}^{1} \int_{1}^{2}}{25 \times 10^{-2}} \cdot \frac{1}{2} \ln^{2} \frac{f_{2}}{T_{1}} = \frac{12 \cdot 10^{-3} (1.45 \cdot 10^{-2})^{2}}{2 \cdot 8.854 \cdot 10^{-12} \cdot 3} \cdot \ln^{2} \frac{3.5}{1.45} =$$

Ook edite 4) Optimalne duljine bodljevih obloga u pravoduom izolatoru.

Obloge se ugraduju u provodni rzalaher da li se dolika.
pordjunja raspodjela potencijala odn. el-pelja.

Ladaues je geom. l3 = 80 mm

$$C_1 = \frac{2\pi \epsilon_0 \epsilon_1 \ell_1}{m \frac{\pi \epsilon_1}{\pi u}}$$

$$C_2 = \frac{2\pi \epsilon_0 \epsilon_1 \ell_2}{\ell_u \frac{\epsilon_2}{\pi u}}$$

$$l_2 = \frac{lu \frac{d^2}{du}}{lu \frac{d^3}{du}} \cdot l_y = 99.82 \, \text{mm}$$

$$l_1 = \frac{l_1 \frac{d_1}{d_1}}{l_1 \frac{d_2}{d_2}} l_3 = 151.54 \text{ mm}$$