303.  

$$T = 10^{-5} \text{ Kn/m}$$
  
 $q = 10^{-8} \text{ Kn}$   
 $a = 0.2 \text{ M}$   
 $F = 2$ 

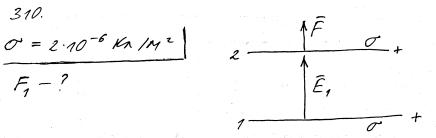
T.K. Julia colprised demand, 10 nampamerusco none, coggabalmoso Coepurem bluge en cepequen monos crucaso was que decronemeno comune  $E = \frac{L}{2\pi \epsilon a}$ 

Cura, genderougue un zapag q
$$F = q E = \frac{Tq}{2\pi \xi a} = \frac{10^{-5} \cdot 10^{-8}}{2\pi \cdot 8,85 \cdot 10^{-12} \cdot 0,2} = 9 \cdot 10^{-3} H$$

310.  

$$O' = 2.10^{-6} \text{ Kn / M}^2$$

$$F_1 - ?$$



Напраменнось, судавашае пискосью 1  $E_1 = \frac{O}{2S}$ 

Cuna, gendegorgal na equinizy mangagu nuocioca 2  $F_1 = OE_1 = \frac{O^2}{2E_0} = \frac{9.10^{-12}}{2.8.85.10^{-12}} = 0,226 \text{ H/m}$ 

323
$$m = 10^{-8} Kr$$

$$f = 10^{-8} Kr$$

$$U = 150 B$$

$$V = 20 M/c$$

$$V_0 - ?$$

-> 
$$\overline{v}$$
 $V_{z}$  recavic mequius noumain notice represente paquian note represente  $V_{z}$ 
 $V_{z}$   $V_{z}$ 

наганная схорось пошими

$$V_0 = \sqrt{V^2 - \frac{2911}{m}} = \sqrt{20^2 - \frac{2 \cdot 10^{-8} \cdot 150}{10^{-8}}} = 10 \text{ m/c}$$

$$328.$$

$$U = 500 B$$

$$U_1 = 70 B$$

$$\mathcal{E} = ?$$

Suprag Kongencasopa 
$$C_1$$

go npassegunenne  $C_2$ :

 $q = C_1U$ 

Eucasisa Kongencasopob

 $C_1 = \frac{E_0S}{d}$ ,  $C_2 = \frac{E_0ES}{d}$ ,

S-nuousage nuacaun, d-pacconsume mengy nuacaunaun. Cuegobasenon  $C_2 = EC_1$ 

3 apragu vougencasopob nouce npucoegunemae (2:

$$(C_1 + C_2)U_1 = C_1U \Rightarrow$$

$$C_2 U_1 = C_1 (U - U_1)$$

$$\mathcal{EC}_1 U_1 = C_1(U - U_1)$$

$$\mathcal{E} = \frac{U - U_1}{U_1} = \frac{500 - 70}{70} = 6,14$$

$$\frac{\Delta I}{\Delta t}$$
 -?

$$3axon \quad \text{tapacoanue} \quad \text{roxa}$$

$$I(t) = \frac{\Delta I}{\Delta t} \cdot t$$

No zanony Duague-lenga Tenuora, briganemae 6 mobiguence za brame t,

$$Q = \int_{0}^{t_{1}} I^{2}(t)Rdt = \left(\frac{\Delta I}{\Delta t}\right)^{2} R \int_{0}^{t_{1}} t^{2} dt =$$

$$= \left(\frac{\Delta I}{\Delta t}\right)^2 \cdot \frac{Rt^3}{3} \Big|_0^{t_1} = \frac{1}{3} \left(\frac{\Delta I}{\Delta t}\right)^2 Rt_1^3 \implies$$

$$\frac{\Delta I}{\Delta t} = \sqrt{\frac{3Q}{Rt_1^3}} = \sqrt{\frac{3.1000}{3.10^3}} = 1 \text{ A/C}$$

338.  

$$Z = 4 OM$$
  
 $E_1 = 2,2 B$   
 $E_2 = 1,4 B$   
 $Z_1 = 0,6 OM$   
 $Z_2 = 0,4 OM$   
 $Z_1 = 0,4 OM$ 

$$\begin{array}{c|c}
I_1 & I_2 \\
E_1 & E_2 & I \\
\hline
Z_1 & Z_2 & Z_2
\end{array}$$

338.

$$Z = 4 \text{ OM}$$
 $E_1 = 2,2B$ 
 $E_2 = 7,4B$ 
 $Z_1 = 0,6 \text{ OM}$ 
 $Z_2 = 0,9 \text{ OM}$ 
 $Z_1 = 0,6 \text{ OM}$ 
 $Z_2 = 0,9 \text{ OM}$ 
 $Z_1 = 0,6 \text{ OM}$ 
 $Z_2 = 0,9 \text{ OM}$ 
 $Z_1 = 0,6 \text{ OM}$ 
 $Z_2 = 0,9 \text{ OM}$ 
 $Z_1 = 0,6 \text{ OM}$ 
 $Z_2 = 0,9 \text{ OM}$ 
 $Z_1 = 0,6 \text{ OM}$ 
 $Z_2 = 0,9 \text{ OM}$ 
 $Z_1 = 0,6 \text{ OM}$ 
 $Z_2 = 0,9 \text{ OM}$ 
 $Z_2 = 0,9 \text{ OM}$ 
 $Z_3 = 0,6 \text{ OM}$ 
 $Z_4 = 0,6 \text{ OM}$ 
 $Z_5 = 0,6 \text{ OM}$ 
 $Z_7 = 0,6 \text{ O$ 

$$E_{2} = I Z + (I - I_{1}) Z_{2} = I Z + (I - \frac{E_{1} - I Z}{Z_{1}}) Z_{2} \Rightarrow$$

$$I(Z + Z_{2} + \frac{Z Z_{2}}{Z_{1}}) = E_{2} + E_{1} \frac{Z_{2}}{Z_{1}} \Rightarrow$$

$$I(Z_{1} + Z_{1} + Z_{1} Z_{2} + Z Z_{2}) = E_{1} Z_{2} + E_{2} Z_{1}$$

$$E_{1} Z_{2} + E_{2} Z_{1} \qquad 2.2 \cdot 0.4 + 1.4 \cdot 0.6$$

$$I = \frac{E_1 Z_2 + E_2 Z_1}{Z_1 Z_2 + Z_1 Z_2} = \frac{2.2 \cdot 0.4 + 1.4 \cdot 0.6}{0.6 \cdot 4 + 0.6 \cdot 0.4 + 4 \cdot 0.4} = 0.4057 A$$