G GRAFIČAR LUDBREG	FOLMAPOLI)
	Emax [T]
1 Vs7	5
Zakon Protrecanja: @Hdl=NI=0	
Hmax·lsr= N. Imax = dmax	(lsr = 20srTT = DsrTT) B=UH
Ohmov sakon ta mag. tng:	
$\Phi = \frac{N\Sigma}{2m} = \frac{\Theta}{2m} / 2m = \frac{1}{4} \cdot \frac{ler}{5} / \Sigma$	$max = [2 \cdot I]$
$L = \frac{N - \ell_{\text{max}}}{L_{\text{max}}} = \frac{N - \ell_{\text{max}} \cdot S}{I \cdot I} = \frac{N \cdot S}{I \cdot I} \cdot \frac{I}{I}$	$\frac{N.\overline{L} \cdot M}{\sqrt{N^2 \mu S}} = \frac{N^2 \mu S}{\sqrt{N^2 \mu S}} = \frac{N^2 \mu S}{N^2$
	1st Km
Pr=EnfB	
Ukupni prijenosni omjer paralelnih	tration: $\frac{U_n}{U_2} = \frac{U_{n_1}}{U_{n_1}} \cdot \frac{U_{n_2}}{U_{n_2}}$
V172 = V271 V272 = V172 - V2	
NAD	MESNE SHEME
$V_{172} = V_{271} \qquad V_{272} = V_{172} \cdot \frac{V_2}{V_1}$ $P.H: \qquad P_1 \qquad X_1 - \qquad P_2 \qquad X_2 - \qquad X_2 - \qquad X_3 - \qquad X_4 - \qquad X_4$	Vin Q Vin T Vin
Van D For In	$a = \frac{1}{\sqrt{2}}$ $\frac{1}{R_0}$ $\frac{1}{R_0}$
	$\overline{Lo^2} = \overline{Lor} + \overline{Lu} Xo = \frac{U_1 u}{V_1 u}$
	In
·	Relativne millioni: Sn = UnIn (13) >3+
	26 = Un (NOCO)
KS: Zk=Vk lk=Pk	lo%= = 100% = U1/2 - 100%
In le Xe In In	Tor.
VE C	$x_{0}^{a}6 = \frac{x_{0}}{2b} \cdot 100^{0}6 = \frac{U_{1}n}{L_{4}}$
	ln= lig= = = 100%
also mye driege \ \10= \chi_0 = \frac{\chi}{2}	V 37 27 3
$2adanO$ $n_1 = n_2 = \frac{n_2}{2}$	$X_{10} = X_{10} = \frac{X_{10}}{3}$ TRADICIDE I KVALITETE
7	Www.graficar.hr

Orcenito kad nad shema:

$$I_{n} = \frac{Sn}{V_{1}n} \quad I_{2n} = \frac{Sn}{V_{2n}} \quad \mathcal{U}_{r} = \frac{P_{k}}{Sn} \cdot 100\%, \quad \mathcal{U}_{k} = \overline{\mathcal{U}_{r}^{2} + \mathcal{U}_{0}^{2}}, \quad \mathcal{U}_{\sigma_{2\sigma}} = \mathcal{U}_{\sigma_{2\sigma}} \rightarrow \text{ne myenjar}$$
se s temp

$$R_{\xi} \circ_{co} = \frac{u_{r} \circ_{co}}{2b} = \frac{r_{t}}{\frac{V_{t}^{2}}{S_{n}}} = \frac{P_{E}}{S_{n}} = u_{r}$$

$$2\xi \circ_{co} = \frac{2\xi}{2b} = \frac{\frac{V_{\xi}}{I_{1}n}}{\frac{V_{4}n}{S_{n}}} = \frac{V_{\xi}}{V_{4}n} = \frac{U_{\xi}}{V_{4}n} = \frac{U_{\xi}}{V_{4}n}$$

$$P_1 \sigma_0 = \frac{\rho_1 c_0}{2b} \cdot b \qquad P_2 c_0 \sigma_0 = \frac{\rho_2 c_0}{2b} \cdot a^2 \cdot b$$

- Neovisio o spoy tratoa:
$$e_f = \frac{e_{st}}{2}$$

$$-\tilde{I} = \frac{V_N}{R} \qquad R_0 = \frac{V_f^2}{\frac{P_0}{3}} = \frac{(F_3 V_c)^2}{P_0} = \frac{V_c^2}{P_0}$$

· Pad vapona u trafou: Du=d (urcost2 + Mosintz to.005d (Morcost2 - Arsintz)2) $d = \frac{S}{Sn} = \frac{I_2}{I_{Dn}} - \text{tadje cost tap-s sinf} < 0$

gledano s pomara: DV = Da. Un => U= Un-DV

gledanu sa sek.: SV = Su. Uzn => Vz= Uzn-su

<i>.</i>	AUTOTRANSPORMATOR 1 TIPSKA SNAGA
G GRAFIČAR LUE)BREG
Tra=Izn Iza Via=Vintvin Stran	$I_{\alpha} = I_{2n} = \frac{S_n}{v_{2n}}$
2 Pan =	Fra = 10/10 -
}	$M_{\xi} = \frac{V_{1k}}{V_{1}} \qquad M_{\xi \alpha} = \frac{M_{\xi} \cdot V_{1\alpha} - V_{2\alpha}}{V_{1\alpha}}$
PARALELNI	RANSFORMATORA
Stop = Memi	$n \ge \frac{S_{ni}}{M \epsilon_{i}}$ $S_{i} = S_{ni} \cdot \frac{S \cdot M \epsilon_{min}}{S dop \cdot M \epsilon_{i}}$
ZE: = Un .ME	$\frac{1}{n!}$ $d_i = \frac{Memin}{M_{Ei}} \cdot d$
7 = 1 - Port	Sobjecost
- hladno strang >	MPERUTURE Vo: V=Vo+(Vm-Vo)·(1-e+) Vo=0
conacho zagrna	nje Im prop. je ukupum gubi oma u trafou:
	Po + di Pt Po + Pt
· dok temp. ob	Oline pada, dozo jena nadtemperatura raste V
	TRADICIJE I KVALITETE

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G GRAFICAR LUDBREG
MA PROTECAME, IND. NAPON
$n = \frac{60+}{F}$, $\ell_{m}s = \frac{1}{15} = \frac{8}{15} = \frac{8}{15} = \frac{8}{15}$
Objetno protjecanje: Os = Bs. 2ms > storeno prizmavim protjecanjima triju taznih namota
$\Theta_{1+} = \frac{2}{3} \Theta_S \qquad \Theta = N = W = 2\pi + 2\pi \frac{n}{60} = \frac{n\pi}{30}$
E=Blv, v=wr
prostorno Ra astopult ac face A
x=IP Vremensto taingenpe
1= Tp 3 Y=0
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
$x = \frac{c}{3}$
Pulsinguia protiecanya -> rastave se nu 2 obietna: direktro i inverano:
$\Theta_{x,t,A} = \Theta_{t,A} = \frac{1}{2}\Theta_{t,A} =$
$\Theta_{x,t,B} = \Theta_{4B} \cos\left(wt - \frac{2\pi}{2}\right) \sin\left(\frac{\pi}{3}x - \frac{2\pi}{3}\right)$ $\Theta_{x,t,B} = \Theta_{4B} \cos\left(wt - \frac{2\pi}{3}\right) \sin\left(\frac{\pi}{3}x - \frac{n\pi}{3}\right)$ $\Theta_{x,t,B} = \frac{1}{2}\Theta_{x} \sin\left(\frac{\pi}{3}x - wt\right) + \frac{1}{2}O_{x} \sin\left(\frac{\pi}{3}x + w_{t} - \frac{4\pi}{3}\right)$
Uk probecange je sadanyeno ad 3 disekha $\Theta_{X,t,c} = \frac{1}{2}\Theta_1 Siv\left(\frac{17}{2}X - u + \right) + \frac{1}{24}Siv\left(\frac{17}{2}X + u + \frac{217}{2}\right)$
Stake face, boya so v statom trentte na $\sum \theta_{x,t}$, the $= \theta_{d} + \theta_{i} = \frac{3}{2} \theta_{a} \sin(\frac{\pi}{2p}x - \omega t) + 0$
Story berosaling Library
alle Oig



ehrana 205-139 (tel-tax), neprehrana 205-142 (tel-tax), građevni materijali, tehnička roba i poljoprivreda 611-255, fax 612-331, Distributivni centar Ljubeščica: 623-438, 623-388, 623-361, fax 623-432, Financije: 611-336 (tel-fax)

SINKRONI STROJEVI

 $N=\frac{60f}{4}$

TURBOGENERATOR - 5 neistabution polonima

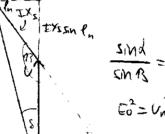
Shroiparipelora LIDEGENERATOR - s istaknutim polovima VEKTORSKO-FAZNOSKI DIJAGRAM

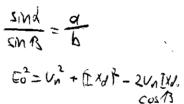
1) hapon V okomito iz ishodista 2) stroja pod kutem p odnosu na V. ind-> desno kap-shjen 3) od vrha V okomito na I ble IXs

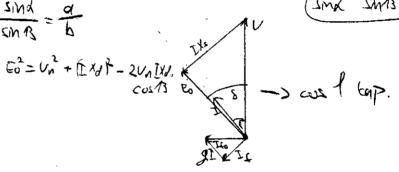
4) Eo se debise stagenjem ishodista s vihom DXs. Sie bet remed U, eo skit opkerlagge

forzora it i Ito je gl > reattip armatie || I

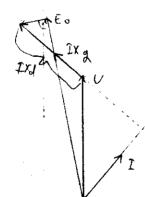
TURBO-GENE" CATUC







HIDROGENERATOR: -12-azene su reuttancije u dig osi > Xd : Xa



RAZNIENA SNAGA MOMENT

$$\frac{P = \frac{Eoph \cdot Un}{Xd} \cdot sin S + \frac{Un}{2} \left(\frac{1}{Xd} - \frac{1}{Xd} \right) sin 2S}{dS}$$

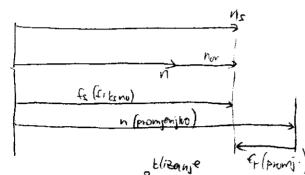
$$MAX snaga: \frac{dP}{dS} = 0 \implies Spr(prehetno) \frac{1}{reluction that snagar}$$

$$Par = Par \cdot Sn$$



rana 205-139 (tel-fax), neprehrana 205-142 (tel-fax), gradevni materijali, tehnička roba i poljoprivreda 611-255, fax 612-331, Distributivni centar Ljubeščica: 623-438, 623-388, 623-361, fax 623-432, Financije: 611-336 (tel-fax)

ASINCRO



- stet. i not polye se vite istom braum - ukujna brena vrtuje votorskog polja u odnosti vorjednu fiksnu tocku statora (ns) je zbroj brene objetnog polja rotora u odnost na povrtnor i brene votora na jednu fiksnu tocku Stationa

Ns = 60 & [min]

S= ns-n -> 10 zlita breine nthje notona n i obietnog polja ns

fr = s. fs > fell notors lih string -> noise boti 60

nr, startor = nr notor + nrotor

Just. Probecange Just. Ladu. na Statur

Conorator

Mrs = Mr, starter - Ms, starter stators to

Snaga: P=13.V1. Il. 1 Pa=13. Ve 13. It=3 VE I forces (Mystor)4

v odrosv na notor

1 PY=13.13.14. It= = 3 UFAIFY

MEY=MED= (UFY)

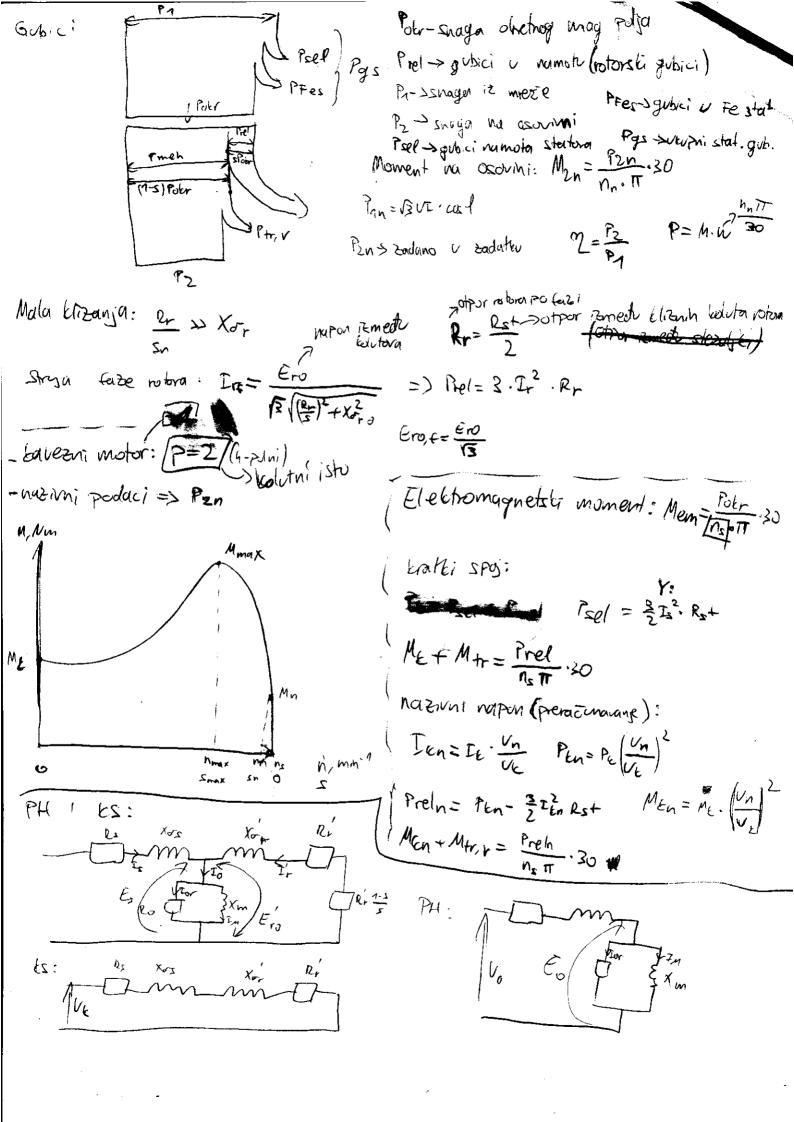
Pregnocumpe namota Sili Y > Progenti fazne strye. Ho a iste, nem Pregrijolianja

GEN-MOT- EUC:

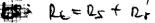
Mz = 60 Es

SALOVA SNAGA: Pret a= F. V. I-snl

Exilia



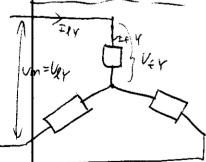
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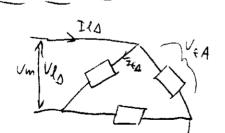


 $2e = \frac{V_{k}}{T_{k}} \quad \times k = \sqrt{2e^{2} - e^{2}} \quad \times \sigma_{S} = \times \sigma_{r} = \frac{X_{k}}{2} \quad |ext| PH. \ bilo AM,$ $= I_{0} = \frac{I_{0}I}{\sqrt{2}} \quad (Y | I | D) ; \ z_{0} = \frac{V_{0}}{I_{0}} \quad |ext| PH. \ bilo AM,$ $= Se \quad Se \quad naponima,$

$$\begin{aligned}
&\text{Fe} = 3 \frac{\varrho_0^2}{\varrho_0} &\text{Tor} = \frac{\varepsilon_0}{\varrho_0} &\text{Tor} = \frac{\varepsilon_0}{\varrho_0} \\
&\text{Xim} = \frac{\varepsilon_0}{\varepsilon_0} \\
\end{aligned}$$

opéenito bod nad. shema:





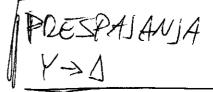
$$U_{4}\Delta - V_{2}\Delta = U_{m}$$

$$I_{4}\Delta = \frac{I_{1}\Delta}{V_{3}}$$

$$V_{4}Y = \frac{V_{1}Y}{V_{2}} = \frac{U_{m}}{V_{3}}$$

$$I_{4}Y = I_{4}Y$$

$$I_{4}Y = I_{4}Y$$



Zadovoljan potrošač, to je naš cilj!

Poterna styla >> IEn



-oko se v rotoske ingare dadaji vanjski otpori: Ior - konst T

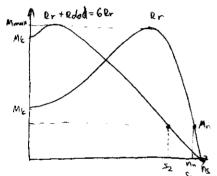
- Moment Egjin je notor opterećen: $\frac{Mn}{5n} = \frac{Mn}{5n}$
- -Naponsto-Fretz. pretzarae: ns-nz= ns2-nz

$$P_{rel} = s \cdot P_{our} = s \cdot \frac{P_{meh}}{1-s} \approx \frac{s}{1-s} \cdot P_{2} = \frac{s}{1-s} \cdot M_{2} \cdot W_{2} = \frac{s}{1-s} \cdot M_{2} \cdot W_{s} \cdot (1-s) = s \cdot M_{2} \cdot \frac{W_{s}}{1-s} \cdot \frac{T}{1-s}$$

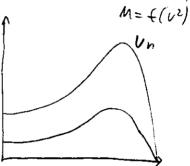
DODAVANYE OTPORA:

$$I_r = tenst = \frac{E_{ro}}{\sqrt{\frac{e_r}{s_n}^2 + \chi_o^2}} = \frac{E_{ro}}{\sqrt{\frac{e_r + e_{dod}}{s_2}}^2 + \chi_o^2} = \frac{e_r + e_{dod}}{s_2}$$

$$\frac{R_r}{S_1} = \frac{R_r + Rdod}{S_2}$$



smangenje napona > moment je proporcionalan na²



Smangage V; { (= tonst)

