Pararol Uban Bacansebur Blegeme

$$\frac{X(t)}{i_{x}(t)} \xrightarrow{\text{Yepnon}} \frac{y(t)}{i_{y}(t)} \xrightarrow{\text{Pac-ubalen Faisko une inverse in ciaryers naprove}} \cdot \text{Pac-ubalen Faisko une inverse in ciaryers naprove}$$

luneimours:
$$X_{i}(t) \rightarrow y_{i}(t)$$
 $\Rightarrow dX_{i}(t) + p X_{i}(t) \rightarrow dy_{i}(t) + p Y_{i}(t)$
 $X_{i}(t) \rightarrow y_{i}(t)$ $\Rightarrow dX_{i}(t) + p X_{i}(t) \rightarrow dy_{i}(t) + p Y_{i}(t)$

Crownonoproces:
$$X(t) \rightarrow y(t) => X(t+at) \rightarrow y(t+at)$$

Gépnon aux onusibaercs:

- · cxeun
 - · nasispan napanespol H

Modas cue-na, cocialmennas y RLC, sel-es innernan a crayronapriori.

Foneigneeune 31-76

Beibb-yracion de yem, byono k-poro reposencet ezem u ros ne l. Momes
cociosis uz >1 vyeavzupsbamma ybyrnanocpura.

Yzer - uleño coezunemus betbeû

Neyespanumum - > 2 beslei Yespanumum - 2 beslu

Konsyp - noton zarrengien nyse, nporog, no neu-vu besten uen. Kopasiepny, nanpablemen obroga, rangas leite /yzer nponog. 1 paz

Ornor un nonno zamiciro i

Konnoventure yp-9 - chairle yen, angez tour ée nonovenieum
Toronomereume yp-9 - chairle yenn, angez tourne ée nonovenieum

Mahwa Kumanogopa

- . Zanon com-2 zerpeza
- Apologa ne nasanubaros zapeg (yzu)

I zakan Kuynerograpu

Am, eguna umobennon znar-un roed been leshen, noganor. «
kangony uz grad l modon moment bpenen, polone o.

Ziz=o.

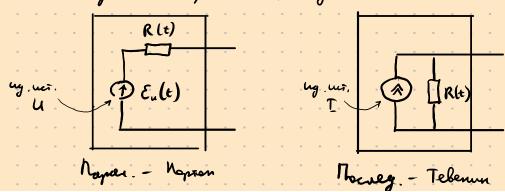
- · Notemparonoire de non
- · Koncepbarulnocis ze une
- . Thoron beneropo B la bremenn l'enene ne uznenalità (ne cruia costra 21-06)

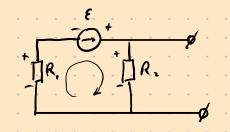
Il Zanon Kuparograpu

An yuna umdennu zvor un nampomenn bær betlen, brogompre l moden kontyp nogempyrongen yenn, palna o

Feopera ad Inbubareninam renepaiope

Tox sponsboumon berks unsernan ze. yem se uznemież, ecu abranaunan glygenamomus, k k-my rogenoreno gounas lerbs, zanemież zeloslavenihum suneapnyupobamium ucromunan znepuwe, k-poin somer Jeris repezcrabien naczegobazewnoń (Telenass) um ragniceuneń (Noprom) czemań
zamenjemi. Mps zren II, C ugeawonow riczornina nemponienia pabnie
nasponemino zawierow rogu abronomnow glygenamomnom, tak ugeawonow
weromnom traka pabla kory K3 abronomnow glygenamomnom, a
bryżpennee compożubnemie u zpolegienam zeb. ucromuna pabnie cawib.
konzerentem brognie compoż. u zpologienami abranomno glygenamomnom.



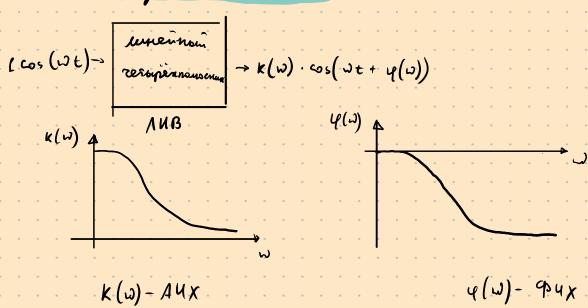


$$I = \frac{\varepsilon}{R_1 + R_2}; \quad U_{xx} = -I R_2 = -\frac{\varepsilon R_2}{R_1 + R_2}$$

Banensen ugeanizapobannom un sona na pazporb uzerne, un ageanizapobannom un sona na pazporb uzerne, consoluence con mongrala banognoe con possibilence renepatora.

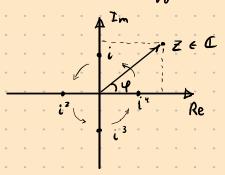
Fro partotaet vouse a Mezabueunsente uero-venza. Du zabuennour npugeres corabiets au-my um yp mi (pazdepues a strem)

Udciernom dnamy rapariepuina yenen



Cause nouse ameance crem!

Tynnonenei put vegyodna - neperogna a rommerchan



$$Z = |Z| \cos \operatorname{drg} Z + i|Z| \sin \operatorname{arg} Z \qquad (i) = \operatorname{arg} Z$$

$$e^{ix} = 1 + ix - \frac{x^{2}}{2} - \frac{ix^{3}}{6} + \frac{x^{4}}{24} + \dots$$

$$e^{ix} = \cos x + i \sin x$$

$$Z = |Z| e^{i \operatorname{arg} Z}$$

$$\cos x = \frac{e^{ix} + e^{-ix}}{2} \qquad \sin x = \frac{e^{ix} - e^{-ix}}{2i}$$

$$\begin{array}{cccc}
\hline
1 & \swarrow & & \\
\hline
\Gamma & & & \\
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 & & & \\
\hline
 & & & \\
\hline
\end{array}$$

$$L = C \frac{du}{dt} \qquad \tilde{T} = C \frac{d(e^{i J t})}{dt} = j \omega C \tilde{u} = \frac{\tilde{u}}{j J C}$$

$$U = L \frac{dI}{dt}$$
 $\tilde{U} = j \omega L \tilde{I}$, $\tilde{L} = \frac{\tilde{u}}{j \omega L}$

luneinne yem 1 nopogna

1 Unicepupyrouse RC - years

$$\widetilde{U}_{gn} = \frac{\widetilde{U}_{gn}}{\widetilde{U}_{gn}} = \frac{\widetilde{$$

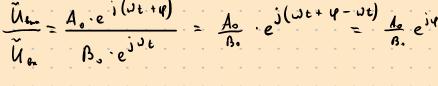
$$\widetilde{I} = \frac{\widetilde{U}_{Rm}}{R + \frac{1}{\sqrt{\omega c}}}$$

$$\widetilde{U}_{\ell_{m}} = \widetilde{T} \cdot \frac{1}{j \omega c} = \frac{\widetilde{U}_{\ell_{m}}}{j \omega RC + 1}$$

The dyger, earn no brog nogare cos wt?

Andminorecomi cuma: cos Dt + i sin Dt

$$\frac{\widetilde{\mathcal{U}}_{4m}}{\widetilde{\mathcal{U}}_{9m}} = \frac{A_0 \cdot e^{i(\omega t + \psi)}}{\beta_0 \cdot e^{i\omega t}} = \frac{A_0}{\beta_0} \cdot e^{i(\omega t + \psi - \omega t)} \cdot \frac{A_0}{\beta_0} \cdot e^{i\psi}$$



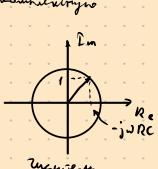
Rayraem Farry Z - cgbin gras - apryment, Logyes-

coornovenne amming

Troba kairen un, nymne uz K(w) bergemine beso genere racia u beno communicaryno

kommercend ypuren gomma mesto nogyus 1 (750 e 14).

$$K(\omega) = \frac{1 - \int \omega RC}{1 + \omega^2 R^2 C^2} = \frac{1 - \int \omega RC}{\int 1 + \omega^2 R^2 C^2} = \gamma |K(\omega)| = (1 + \omega^2 R^2 C^2)^{-1/2}$$



arg K=y = -arcty wRC

