VEDO ESTRE

A DEFINICIÓNEDE ADODDAN AZ LTT HAÍLOZATOR IMPEDANCIA & OPERATOROS
IMPEDANCIA, FREEVENCIA-VALARZ ÉS ÁTVITEL FOU-I ESZÓT ZOYSTERGÍ
EAPCIOCAT VAN
S=ju

2) AZ ELTZPO BAZINFOV-EK ILL A FOMPLEX AMPLITION DEFINICIÓDA MINTE A KAPCNOCAT A BECELRE NEZVE DÓVAL BOMOLULTABB.

EZ AZ ANYAG A KOMPLEX AMPLITUDÓK HARNÁLATÁT INDOKOLDA.

SECEDTETEL:

HAX (4) VALIS (AKA'R DEC, AFA'R IMPULEUS-VALARIFEU), AFTER FOURIER
TRANSTFORMA'CT DA'RA IGAZ

$$X(-\omega) = X^*(\omega)$$

$$X(\omega) = \int_{-\infty}^{\infty} x(t) e^{-j\omega t} dt = X(\omega)$$

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KMPLEX AMPCITUDE HARRNÁLATANAF BROWITÁNA:

VALOR IDSFEU FECTRASA A COMPLEX AMPLITUDOVAL:

$$V_{be}(t) = V_{be}(t) = V_{be}(t) + V_{be}(t)$$

$$V_{be}(t) = V_{be}(t) = V_{be}(t) + V_{b$$

AZ LTI NP ECY ALLANDÓ EGYÜTTHATÓN, LINEÁRIS DIFF. EGY. - VEL BELLETEZHENÓN $\frac{d^{0}v_{i}}{dt^{0}} + \alpha_{0} - 1 \frac{d^{0}v_{i}}{dt^{0}} + \dots + \alpha_{1} \frac{d^{0}v_{i}}{dt} + q_{0}v_{i} = b_{i} \frac{d^{0}v_{i}}{dt^{0}} + \dots + b_{1} \frac{d^{0}v_{i}}{dt} + b_{0}v_{i}$ UEDD ÉNERE, (1-1) A $v_{i}e^{(t)}$ $v_{i}e^{(t)}$ GERDENATENT EET KOMPLEX $\frac{d^{0}v_{i}}{dt} + \alpha_{0}v_{i} + \dots + \alpha_{1} \frac{d^{0}v_{i}}{dt} + q_{0}v_{i} = b_{i} \frac{d^{0}v_{i}}{dt} + \dots + b_{1} \frac{d^{0}v_{i}}{dt} + b_{0}v_{i}e$ $\frac{d^{0}v_{i}}{dt} + \alpha_{0}v_{i} + \dots + \alpha_{1} \frac{d^{0}v_{i}}{dt} + q_{0}v_{i} = b_{i} \frac{d^{0}v_{i}}{dt} + \dots + b_{1} \frac{d^{0}v_{i}}{dt} + b_{0}v_{i}e$ $\frac{d^{0}v_{i}}{dt} + \alpha_{0}v_{i} + \dots + \alpha_{1} \frac{d^{0}v_{i}}{dt} + q_{0}v_{i} = b_{i} \frac{d^{0}v_{i}}{dt} + \dots + b_{1} \frac{d^{0}v_{i}}{dt} + b_{0}v_{i}e$ $\frac{d^{0}v_{i}}{dt} + \alpha_{0}v_{i} + \dots + \alpha_{1} \frac{d^{0}v_{i}}{dt} + q_{0}v_{i} = b_{i} \frac{d^{0}v_{i}}{dt} + \dots + b_{1} \frac{d^{0}v_{i}}{dt} + b_{0}v_{i}e$ $\frac{d^{0}v_{i}}{dt} + \alpha_{0}v_{i} + \dots + \alpha_{1} \frac{d^{0}v_{i}}{dt} + q_{0}v_{i} = b_{i} \frac{d^{0}v_{i}}{dt} + \dots + b_{1} \frac{d^{0}v_{i}}{dt} + b_{0}v_{i}e$ $\frac{d^{0}v_{i}}{dt} + \alpha_{0}v_{i} + \dots + \alpha_{1} \frac{d^{0}v_{i}}{dt} + q_{0}v_{i} = b_{0} \frac{d^{0}v_{i}}{dt} + \dots + b_{1} \frac{d^{0}v_{i}}{dt} + b_{0}v_{i}e$ $\frac{d^{0}v_{i}}{dt} + \alpha_{0}v_{i} + \dots + \alpha_{1} \frac{d^{0}v_{i}}{dt} + q_{0}v_{i} + \dots + d_{1} \frac{d^{0}v_{i}}{dt} + q_{0}v_{i} + \dots + d_{1} \frac{d^{0}v_{i}}{dt} + \dots + d_{1} \frac{d^{0}v_$

HIVEL A NP LINEARY, Ubc (+) - RE ALKAL MAZZUK A NEVPERPOZICIÓT

$$\frac{A}{V_{be}}(t) = \frac{V_{be}}{V_{c}} = \frac{j \omega_{c}^{2}}{V_{c}^{2}} + AROL \quad V_{be} \quad A \quad \text{EMPLEX AMPLITUDE} \qquad (2-1)$$

MIVEL A KOMPLEX EXPONENCIALISOK SADATAGU-EK, FERESSÜK (1-1) MEGOL-DAISAT OZ ALA'BBI ALAKBAN

(2-1) ES (2-2) EGYENLETERET (1-1) - BE HELYETENITUE

 $a_{1}(j\omega_{3})$ $C'e^{j\omega_{3}t}$... + $a_{1}(j\omega_{3})$ $C'e^{j\omega_{3}t}$ + $a_{0}C'e^{j\omega_{3}t}$ = $b_{1}(j\omega_{3})$ $\frac{v_{be}}{R}e^{j\omega_{3}t}$ + ... + $b_{1}(j\omega_{3})$ $\frac{v_{be}}{R}e^{j\omega_{3}t}$ + b_{0} $\frac{v_{be}}{R}e^{j\omega_{3}t}$

$$O_{(k)}^{(4)}(t) = H(j\omega)$$

$$\frac{V_{be}}{IZ} = j\omega_g t$$

$$= H(j\omega_g) V_{be}(t) \qquad (2-3)$$

NEUPERPOSICIO A MÁSIK EMPONENSRE:

$$\frac{(b)}{(b)}(t) = \left(\frac{V_{be}}{12}e^{j\omega_{b}t}\right)^{*} = \frac{V_{be}^{*}}{2}e^{-j\omega_{b}t}$$

HOST A REPOERTS FREKUENCIA — w_g . A MEGOLDAST FERENCIK $v_{ij}(t) = d e^{-jw_g t}$

LICVALUEY MINT FENT KAPOUK:

$$\frac{\langle \mathcal{E} \rangle}{\langle \mathcal{E} \rangle} = H(j\omega) \left| \begin{array}{c} \frac{V_{be}}{V_{be}} = j\omega_{s}^{t} \\ = H(-j\omega_{s}^{t}) & \forall_{be}(t) \end{array} \right| (2-4)$$

$$\frac{V_{be}}{V_{be}} = \frac{1}{2} \left[\begin{array}{c} \mathcal{E} \\ \mathcal{E}$$

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A STUPERPORICIÓ ÉLTECHÉREN A FIMENET A LÉT GELDERTEURE ADOT VALLAR ÖSPREGE [(2-2) ES (2-4)]:

$$\sigma_{kj}(t) = \sigma_{kj} + \sigma_{kj} = H(jug) \sigma_{ke}(t) + H(-jug) \sigma_{ke}(t)$$

$$H(jug) \left[\sigma_{ke}(t)\right]^{*}$$

A DEFINICIORAL GUETTERIK, HOGY

EZ A TAG A FIMENET COMPLEX
AMPLITUDÓJA

TEHAT :

$$V_{ki} = H(j\omega_S)V_{be} = |H(j\omega_S)|V_{eff}$$
 e $\frac{j[\theta_{be} + [H(j\omega_S)]]}{eff}$