

<i>Unda plană</i>			
		$I(x) = I_0^+ e^{-\gamma x} + I_0^- e^{+\gamma x}$	(20)
$\nabla \cdot \vec{D} = \rho_{E,v}$	(1)	$I(x) = \frac{\gamma}{(R_0 + j\omega L_0)} (U_0^+ e^{-\gamma x} - U_0^- e^{+\gamma x})$	(21)
$\nabla \cdot \vec{B} = 0$	(2)	$Z_C = \frac{U_0^+}{I_0^+} = \frac{-U_0^-}{I_0^-}$	(22)
$\nabla \times \vec{E} = -\frac{\partial \vec{B}}{\partial t}$	(3)	$Z_C = \sqrt{\frac{R_0 + j\omega L_0}{G_0 + j\omega C_0}}$	(23)
$\nabla \times \vec{H} = \frac{\partial \vec{D}}{\partial t} + \vec{J}_E$	(4)	$Z_C = \frac{j\omega L_0}{\gamma} = \sqrt{\frac{L_0}{C_0}}$	(24)
$\vec{D} = \epsilon_r \epsilon_0 \cdot \vec{E}$, unde $\epsilon_0 \simeq 8,854 \cdot 10^{-12} \text{ F} \cdot \text{m}^{-1}$	(5)	$\beta = \omega \cdot \sqrt{L_0 \cdot C_0}$	(25)
$\vec{B} = \mu_r \mu_0 \cdot \vec{H}$, unde $\mu_0 \simeq 4\pi \cdot 10^{-7} \text{ H} \cdot \text{m}^{-1}$	(6)	$v_\phi = \frac{\omega}{\beta} = \frac{1}{\sqrt{L_0 C_0}}$	(26)
$\nabla \times \vec{H} = j\omega \epsilon \vec{E} + \vec{J}_E$	(7)	$\Gamma_0 = \frac{U_0^-}{U_0^+} = \frac{Z_S - Z_C}{Z_S + Z_C}$	(27)
$\nabla^2 \vec{E} + \omega^2 \mu \epsilon \vec{E} = 0$	(8)	$\Gamma_x = \frac{U^-(x)}{U^+(x)} = \frac{U^-(0) e^{j(\beta x)}}{U^+(0) e^{j(-\beta x)}} = \Gamma_0 \cdot e^{j2\beta x}$	(28)
$E_x(z, t) = E_0^+ e^{j(\omega t - kz)} + E_0^- e^{j(\omega t + kz)}$	(9)	$\sigma(\text{sau VSWR}) = \frac{1 + \Gamma_0 }{1 - \Gamma_0 }$	(29)
$v_\phi = \frac{dz}{dt} = \frac{\omega}{k} = \frac{1}{\sqrt{\mu \epsilon}}$	(10)	$Z_i(L) = Z_C \cdot \frac{Z_S + jZ_C \cdot \tan(\beta L)}{Z_C + jZ_S \cdot \tan(\beta L)}$	(30)
$\lambda = \frac{2\pi}{k} = \frac{2\pi \cdot c}{\omega} = \frac{c}{f}$	(11)	$Z_i(\lambda/4) = \frac{Z_C^2}{Z_S}$	(31)
$H_y(z, t) = \frac{1}{Z_U} [E_0^+ e^{j(\omega t - kz)} - E_0^- e^{j(\omega t + kz)}]$	(12)	$C_0 = \frac{2 \cdot \pi \epsilon_0 \epsilon_r}{\ln\left(\frac{D}{d}\right)}$	(32)
$Z_U = \frac{E_0^+}{H_0^+}$	(13)	$L_0 = \frac{\mu_0 \mu_r}{2 \cdot \pi} \ln\left(\frac{D}{d}\right)$	(33)
$Z_{TEM} = Z_d = \frac{\omega \mu}{k} = \sqrt{\frac{\mu}{\epsilon}}$	(14)	<i>Ghiduri de undă</i>	
$Z_{d0} = \sqrt{\frac{\mu_0}{\epsilon_0}} \simeq 377 \Omega$	(15)	$Z_{TE} = \frac{Z_d}{\sqrt{1 - \left(\frac{f_c}{f}\right)^2}}$	(34)
<i>Linii de transmisie</i>		$Z_{TM} = Z_d \cdot \sqrt{1 - \left(\frac{f_c}{f}\right)^2}$	(35)
$\frac{d^2 U(x)}{dx^2} - (R_0 + j\omega L_0)(G_0 + j\omega C_0)U(x) = 0$	(16)	$v_\phi = \frac{\omega}{\beta_g} = \frac{c}{\sqrt{1 - \left(\frac{f_c}{f}\right)^2}}$	(36)
$\frac{d^2 I(x)}{dx^2} - (R_0 + j\omega L_0)(G_0 + j\omega C_0)I(x) = 0$	(17)	$v_g = \frac{d\omega}{d\beta_g} = c \cdot \sqrt{1 - \left(\frac{f_c}{f}\right)^2}$	(37)
$\gamma = \alpha + j\beta = \sqrt{(R_0 + j\omega L_0)(G_0 + j\omega C_0)}$	(18)	$\lambda_g = \frac{\lambda}{\sqrt{1 - \left(\frac{f_c}{f}\right)^2}}$	(38)
$U(x) = U_0^+ e^{-\gamma x} + U_0^- e^{+\gamma x}$	(19)	$f_{c,(m,n)} = \frac{c}{2} \sqrt{\left(\frac{m}{a}\right)^2 + \left(\frac{n}{b}\right)^2}$	(39)