

.2.

EuS(3.5) - SrS(0.7)

621.372.82:537.312.62

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$$\begin{aligned}
 -dU/dz &= I(R+i L) \\
 -dI/dz &= U(G+i C)
 \end{aligned}
 \tag{1}$$

Z :

$$Z_{\omega} := \sqrt{(R + i\omega \cdot L) \cdot (G + i\omega \cdot C)} \quad (2)$$

(1), (2) R L

$$R_s, X_s, P, R, L, R = R(R_s), L = L(X_s), I(x, t)$$

P (1) $R_s = R_s(P), X_s = X_s(P), P$

$$[1]: R(x, t) = R[1 + I^2(x, t)/I_0^2], \quad I_0 -$$

[1].

L,

R.

(1)

R L.

Im(x)

x:

$$\frac{d}{dx} \text{Im}(x) + \alpha \cdot \text{Im}(x) \cdot \left[1 + \frac{3}{4} \cdot \frac{\text{Im}^2(x)}{I_0^2} \right] = 0 \quad (3)$$

(3)

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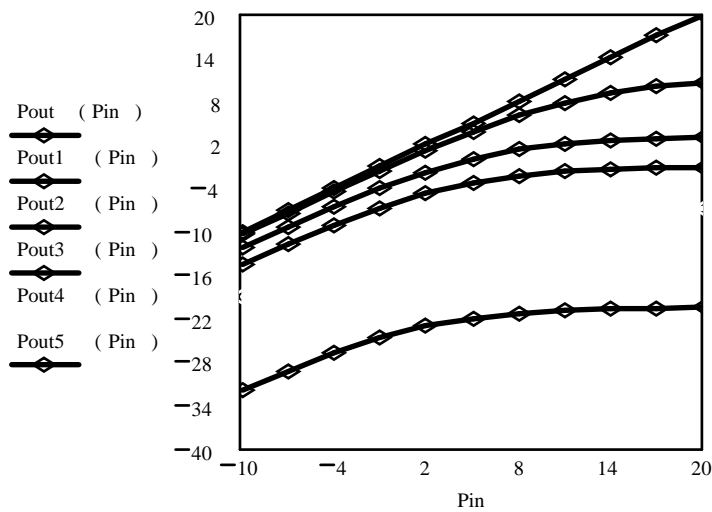
P / P

R.

$$\beta^2 = \omega^2 \cdot C \cdot L \cdot \left(1 + \frac{1}{4} \cdot \frac{\text{Im}^2}{I_0^2} \right) + \frac{1}{\text{Im}(x)} \cdot \frac{d^2}{dx^2} \text{Im}(x) \quad (4)$$

R:

$$\beta^2 = \omega^2 \cdot C \cdot L + \frac{1}{\text{Im}(x)} \cdot \frac{d^2}{dx^2} \text{Im}(x) \quad (5)$$



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P

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: 1.O.G.Vendik,I.B.Vendik,T.B.Samoilova, Nonlinearity of Superconducting Transmission Line and Microstrip Resonator, Proc. IEEE, vol. 61, no. 1, pp. 58–69, Jan. 1973

539.216.2: 537.633.9

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COMBINED ANALYSIS OF THE DATA OF STATIC AND DYNAMIC MAGNETIC MEASUREMENTS AS METHOD OF MAGNETIC STATE STUDYING OF CoFeZr/Si MULTILAYER NANOSTRUCTURES

Last years magnetic nanostructures composed of ferromagnetic metal and semiconductor layers have attracted attention of researchers as promising material for spin electronics devices. These nanostructures may be used for elaboration of the spin field-effect transistors, as well may served as spin-polarized electrons