

List of Symbols

Symbol	Description
M_s	Saturation Magnetisation
D	Electric Displacement Vector
E	Electric Field vector
B	Magnetic Field Vector
J_f	Free Electron Current Density
ρ_f	Free Electron Charge Density
H	Magnetic Field Strength
R_{Coe}	Reflection Coefficient
Z	Impedance
f_m	Matching Frequency
t_m	Matching Thickness
k	Wave Propagation Vector
P	Dielectric Polarization Vector
χ^e	Electrical Susceptibility
B	Magnetic Flux Density
ω	Angular Frequency
n	Refractive Index
τ	Relaxation Time
$\tan\delta_e$	Dielectric Loss Tangent
$\tan\delta_m$	Magnetic Loss Tangent
σ	Conductivity
f	Frequency
γ	Wave Propagation Constant
g_s	Spin Splitting Factor
f_L	Larmor Frequency
h	Planck's Constant
β	Damping Constant
λ	Wave Length
η	Normalized Input Impedance
c	Velocity of light
$\Delta\omega$	Raman Shift
Γ	Reflection Coefficient
T	Transmission Coefficient
S	Scattering Parameters
K_1	Anisotropic Constant
α	Gilbert Constant
H_c	Coercive Field
ϵ_r'	Real Relative Permittivity
ϵ_r''	Imaginary Relative Permittivity
μ_r'	Real Relative Permeability
μ_r''	Imaginary Relative Permeability
δ_m	Skin Depth
dB	Decibel
T_N	Neel Temperature
H_θ	Out of Plane Anisotropic Field
H_ϕ	In-Plane Anisotropic Field
f_r	Ferromagnetic Resonance Frequency
M_r	Remnant Magnetization
Z_m	Impedance in Medium

δ_m Skin Depth
 μ_s Spin Magnetic Movement