ประกาศตัวแปร

A	area [m^2]
B	magnetic flux density (Wb/m^2)
C_p	specific heat capacity [J/kgK]
D	electric flux density (C/m^2)
E	electric field intensity [V/m]
f	frequency of incident wave [Hz]
H	magnetic field intensity [A/m]
J	current density [A/m^2]
L_x	the length of wave guide in x-direction [m]
Z_I	intrinsic impedance [Ω]
Z_H	wave impedance [Ω]
P	microwave power level [W]
p	pressure [Pa]
Q	local electromagnetic heat generation term [W/m^3]
q	heat flux [W/m^2], electric charge density [C/m^3]
R	universal gas constant [J/mol/K]
T	temperature [$^{\circ}C$]
$\tan\delta$	loss tangent coefficient [-]
t	time [s]

Greek letters

ρ	density [kg/m^3]
α	thermal diffusivity [m^2/s]
β	coefficient of thermal expansion [1/K]
μ	magnetic permeability [H/m]
υ	velocity of microwave [m/s]

λ_0 wavelength in free space [m]

λ_g wavelength in waveguide [m]

λ_{mg} wavelength in dielectric materials [m]

ω angular frequency [rad/s]

σ electric conductivity [S/m]

ε complex permittivity [F/m]

ε' permittivity or dielectric constant [-]

ε'' dielectric loss factor [-]

λ, λ_{eff} effective thermal conductivity [W/mK]

Subscripts

0 free space

in input

n component of normal direction

r relative

t component of tangent direction

x, y, z coordinates