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The microwave region is typically defined as those frequencies between 300 MHz and 300 GHz. (Recall $1 \text{ MHz} = 1 \times 10^6 \text{ Hz}$ and $1 \text{ GHz} = 1 \times 10^9 \text{ Hz}$.) These frequencies include free-space wavelengths between 1 m and 1 mm.

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During World War II microwave engineering played a significant role in developing radar that could accurately locate enemy ships and planes with a focused beam of EM radiation. The foundations of this discipline are found in Maxwell's equations and the work of Heinrich Hertz , William Thomson 's waveguide theory , J.C. Bose , the klystron from Russel and Varian Bross, as well as contributions ...

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Microwave network analysis using admittance impedance and scattering matrices. For the N-port microwave network, as is depicted in Figure 1, if these ports support various propagating waveguides modes, at some point on the N-port, t_n , can be described with equivalent voltages and currents for the incidents and reflected waves V_{n+} , V_{n-} , I_{n+} , I_{n-} .

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Equation (3.197) – Inverse design formula for a microstrip line of a given characteristic impedance. Considering the microstrip as a quasi- TEM line, attenuation is due to both dielectric and conductor losses. February 22, 2011 11

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The general solutions of equations (i) and (ii) above yield the

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complex wave equations for voltage and current. These are applicable when the excitation is sinusoidal and the circuit is under steady state conditions. $V(z) = V_0^+ e^{-j\beta z} + V_0^- e^{+j\beta z}$ $I(z) = I_0^+ e^{-j\beta z} + I_0^- e^{+j\beta z}$

MICROWAVE AND RADIO FREQUENCY ENGINEERING

Maxwell's fourth equation is like a mirror image of the third equation, Gauss's law. Gauss's Law has to do with electric charge, i.e., static electricity, generating voltage (electric field). Gauss's law says that the sum total of electric field crossing over the surface of any sphere is equal to the total electric charge inside the sphere.

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Microwave Engineering and Systems Applications

The free space loss is computed based on the path length and frequency using the equation: (1) $A = 96.6 + 20 \text{ LOG } (F) + 20 \text{ LOG } (D)$

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solve the equations. To reduce the time to solve the complex calculations in microwave engineering, an application is developed using the ANDROID STUDIO tool. Android is an open source mobile operating system that combines and builds upon parts of many different open source projects.

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Microwave Engineering - Transmission Lines. Advertisements.

[Previous Page](#). [Next Page](#) . A transmission line is a connector which transmits energy from one point to another. The study of transmission line theory is helpful in the effective usage of power and equipment.

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