

usually limited to the case of narrow band microstrip antennas (P. Bhartia, 1980). Later more rigorous methods have been proposed such as Full Wave Analysis, FDTD and MPIE. In these methods, the antenna characteristics can be determined by solving the integral equations (method of moment). The integral equation method are not restricted to the case of single microstrip patch antenna but can also be applied to microstrip array and to multilayer configuration. However a major drawback of these methods is long computation time and the relatively large computer memory requirements (Kin-Lu Wong, et al, 1999). In this paper, we have design a rectangular patch antenna at an operating frequency of 3 GHz and results are simulated using IE3D simulator. IE3D is a full-wave electromagnetic simulator based on the method of moments. IE3D solves the Maxwell's Equations in an integral form through the use of Green's functions. It can be used to calculate and plot the S11 parameters, VSWR, current distributions as well as the radiation patterns. It can model structures with finite ground planes and differential feed structures, can model true 3D metallic structures in multiple dielectric layers in open, closed or periodic boundary.

## 2. Structure of Microstrip Patch Antenna

A microstrip antenna is made up of two parallel conductors that are separated by a dielectric substrate. The lower conductor usually acts as a ground plane and the upper conductor is a patch, therefore such antennas are also called patch antennas. The rectangular patch excited in its fundamental mode has a maximum directivity in the direction perpendicular to the patch (broadside). The patch can be of various shapes such as rectangular, circular, square, elliptical, dipole and triangular among others but regular shapes are generally used to simplify analysis and performance prediction. Substrate properties such as dielectric constant and thickness are important considerations in the design of microstrip antennas.

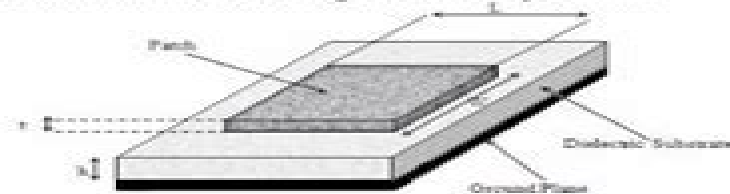


Fig.1. Basic Structure of a Microstrip Patch Antenna

Various substrates are available with values of dielectric constant between 2.2 and 12. Thick substrates with lower dielectric constant result in better efficiency, larger bandwidth and a larger antenna size i.e. good antenna performance. On the other hand, thin substrates with higher dielectric constant cause reduced efficiency, smaller bandwidths and smaller element sizes, excitation of surface waves that deteriorate the radiation pattern. To increase the narrow bandwidth and radiation efficiency of

patch antenna, stacked or slotted patch antennas can be used. Of equal importance is the method which is used to feed the antenna. Microstrip line, coaxial probe, aperture coupling and proximity coupling are the four commonly used methods.

## 3. Design Parameters

The microstrip patch has been designed for the S-band frequency ranges (3GHz in this case). The design flow for the single patch dimensions, using the cavity model approach is as follows:

### Step 1: Calculation of the Width (W):

The width of the Microstrip patch antenna is given as:

$$W = \frac{c}{2f_0 \sqrt{\frac{\epsilon_r + 1}{2}}}$$

Substituting  $c = 3.00 \times 10^8$  m/s,  $\epsilon_r = 2.32$  and  $f_0 = 3$  GHz, we get:  
 $W = 0.038$  m = 38 mm

### Step 2: Calculation of Effective dielectric constant ( $\epsilon_{reff}$ ):

The effective dielectric constant is:

$$\epsilon_{reff} = \frac{(\epsilon_r + 1)}{2} + \frac{(\epsilon_r - 1)}{2} \left[ 1 + \frac{12h}{W} \right]^{-1/2}$$

Substituting  $\epsilon_r = 2.32$ ,  $W = 38$  mm and  $h = 1.59$  mm we get:  
 $\epsilon_{reff} = 2.1985$

### Step 3: Calculation of the Effective length ( $L_{eff}$ ):

The effective length is:

$$L_{eff} = \frac{c}{2f_0 \sqrt{\epsilon_{reff}}}$$

Substituting  $\epsilon_{reff} = 2.1985$ ,  $c = 3.00 \times 10^8$  m/s and  $f_0 = 3$  GHz we get:  
 $L_{eff} = 0.033721$  m = 33.721 mm

### Step 4: Calculation of the length extension ( $\Delta L$ ):

The length extension is:

$$\Delta L = 0.412h(\epsilon_{reff} + 0.3)\left(\frac{W}{h} + 0.264\right) / (\epsilon_{reff} - 0.258)\left(\frac{W}{h} + 0.8\right)$$

Substituting  $\epsilon_{reff} = 2.1985$ ,  $W = 38$  mm and  $h = 1.59$  mm we get:  
 $\Delta L = 0.843$  mm

The dominant mode is thus  $TM_{00}$ . The results have been obtained using IE3D Simulator.

# Ie3d Manual On Microstrip Patch Antenna

**Ensheng Dong**



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