

Department of Electronics and Communication Engineering
Webinar on “ Advances in Planar Antenna Design using CST Microwave Studio”

BROCHURE:



The brochure features a blue and orange color scheme. At the top, it displays the logos for East Point College of Engineering & Technology and IEEE RAVAR OFF SECTION. The main title is 'Advances in Planar Antenna Design using CST Microwave Studio'. The event is scheduled for 11th December 2020 at 12:00 PM. The speaker is Rajesh Kulalar, Application Engineer at Jyothi Electronics. The coordinators are Dr. Anita R (Asst. Prof, ECE Dept) and Mrs. Deepthi Chamkur V (Asst. Prof, ECE Dept). A QR code and a registration link (<https://forms.gk/2REAJNkGh29MCmlL27>) are provided for registration. A note at the bottom states 'E-Certificates will be issued to all the participants'.

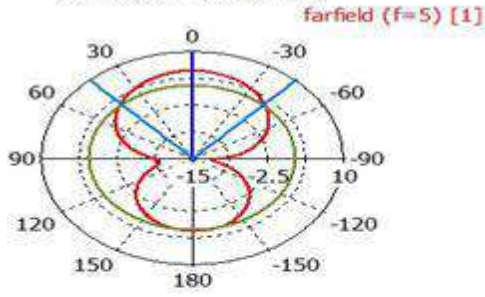
RESOURCE PERSON:

Rajesh Kulalar
Application Engineer
Jyothi Electronics
Bangalore

VENUE: ONLINE MODE

Microstrip patch antennas have more advantages and better prospects compared to conventional antennas, such as lighter in weight, low volume, low cost, low profile, smaller in dimension and ease of fabrication and conformity. Moreover, the microstrip patch antennas can provide frequency agility, broad band-width, feedline flexibility and beam scanning omnidirectional patterning. In its basic form, a microstrip Patch antenna consists of a radiating patch on one side of a dielectric substrate which has a ground plane on the other side

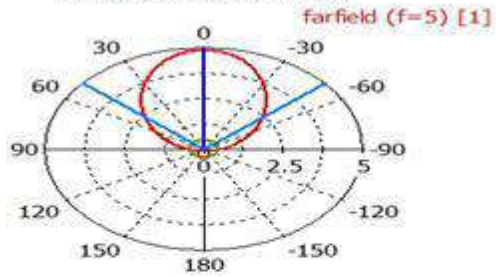
Farfield Gain Abs (Phi=0)



Theta / Degree vs. dB

Frequency = 5
 Main lobe magnitude = 5.3 dB
 Main lobe direction = 0.0 deg.
 Angular width (3 dB) = 86.3 deg.
 Side lobe level = -3.2 dB

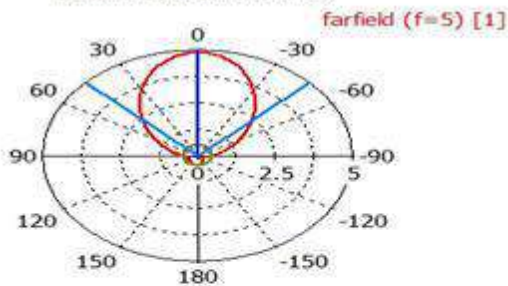
Farfield Gain Abs (Phi=90)



Theta / Degree

Frequency = 5
 Main lobe magnitude = 4.84
 Main lobe direction = 0.0 deg.
 Angular width (3 dB) = 98.7 deg.
 Side lobe level = -10.0 dB

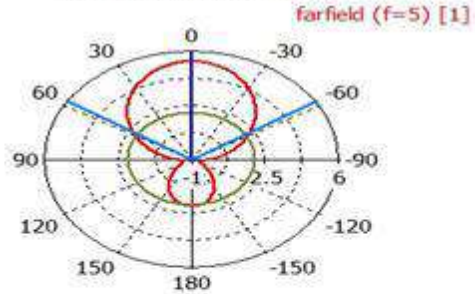
Farfield Gain Abs (Phi=0)



Theta / Degree

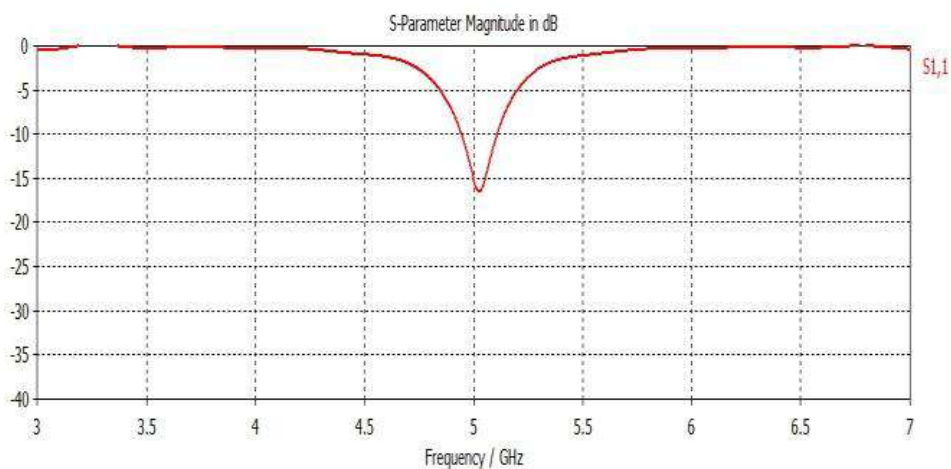
Frequency = 5
 Main lobe magnitude = 4.84
 Main lobe direction = 0.0 deg.
 Angular width (3 dB) = 92.6 deg.
 Side lobe level = -9.9 dB

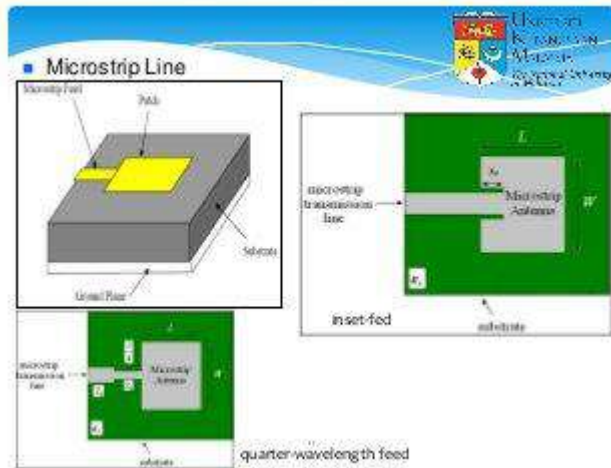
Farfield Gain Abs (Phi=90)



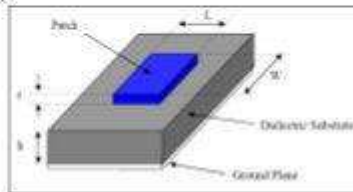
Theta / Degree vs. dB

Frequency = 5
 Main lobe magnitude = 5.3 dB
 Main lobe direction = 0.0 deg.
 Angular width (3 dB) = 115.6 deg.
 Side lobe level = -3.2 dB





- To design a Rectangular patch antenna. There are four essential parameters which are important to know:-
- The operating frequency (f_c).
 - Dielectric constant of substrate (ϵ_r).
 - The height of the dielectric substrate (h).
 - The height of the conductor (t).

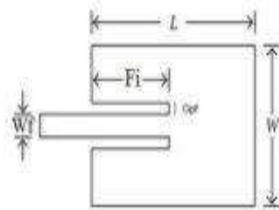


The other parameters:

- The width of the patch (W)
- The length of the patch (L)
- The width and length of the Ground plane and the substrate ($W_g \times L_g$).

The Parameters

Parameters	mm
W	38
L	29
Fi	8.85
Wf	3.137
Gpf	1
Lg	$2 \times L$
Wg	$2 \times W$
ht	0.035
ts	1.6



Department of Electronics and Communication Engineering
GALLERY:



CERTIFICATES:





EAST POINT COLLEGE OF ENGINEERING & TECHNOLOGY

Department of Electronics and Communication Engineering



EAST POINT COLLEGE OF ENGINEERING & TECHNOLOGY

Department of Electronics and Communication Engineering

Certificate of Participation

This is to certify that **NAYANA** of **SIT** has participated in Webinar on "**ADVANCES IN PLANAR ANTENNA DESIGN USING CST MICROWAVE STUDIO**" organized by Dept. of ECE, East Point College of Engineering and Technology on 11th December 2020.

Dr. YOGESH G S
HOD, Dept. of ECE
EPCET

Dr. SATEESH T K
Principal
EPCET