DESIGN AND ANALYSIS OF COMPACT ARRAY ANTENNA FOR SATELLITE APPLICATION AT KA-BAND FREQUENCY

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This paper illustrates the comparative design and simulation of single and 4x1 array antenna for satellite applications which are operating at Ka-band frequency. To design these antenna using corporate feeding technique. Using HFSS software for simulation. For designing patch antenna using roger RT Duroid 5880 substrate which has a dielectric constant of 2.2 and thickness is 0.4 mm. From the simulation results the parameters like S-parameter, VSWR, Gain, Directivity, Radiation pattern.

 ISBN 978-93-5406-579-8