Abstract

In this paper has designed Compact Dual band antenna for S-C Band wireless communication, Meta material and Orthogonal shorting pin techniques are used for the designing of the proposed antenna. Invert U-Slot, Square Slots designed in the patch and Meander slot designed in the ground plan. Slotting has been done using impedance matching and Meta material theory. This work is carried out to design circular polarized antenna, circular polarization of antenna validated by axial-ratio curve. For achieving compactness shorting pins have loaded in to patch in orthogonal pattern, because of shorting pins the minimum point of lower frequency moves to higher frequency and gives broad AR bandwidth. Microstrip Antenna is a strip antenna which is designed in very small size. it is versatile used in recent communication due to low weight, low profile, flexible in fabrication,. It will be use in GSM, Bluetooth, Radar and satellite application. All application requires compact and broadband antenna. Microstrip Antenna is used in various band in wireless communication application like S-band, C-band.
References


Index Terms

Computer Science

Communications

Keywords

Broadband antenna application, S-Band, C-Band, Orthogonal shorting pin techniques, slotting techniques, Meta material