Abstract

In this letter, the design of inset fed microstrip antenna is proposed at 45deg and -45deg to achieve the optimum performance of the return loss, antenna gains and polarization loss. A design of the broadband dual-polarized microstrip antennas is proposed by using the simply inset feed technique but slant at desired rotation. In most applications, the requirement of propagation can be met with a single patch structure. However, in some cases, sharp beamwidth was required, as well as maintaining a low profile structure, which arise the development of microstrip patch array antennas. Both design of array antennas in this paper were connected using parallel feed quarter-wave transformer impedance matching technique.