

A SURVEY ON RECONFIGURABLE ANTENNA IMPLEMENTATION TECHNIQUES

UMA SHANKAR MODANI AND S. G. MODANI

Abstract

The wireless services integrated in one module requires an antenna system which can support various services and standards. For this, either the antenna must have a resonant bandwidth that covers all the services or it must have some reconfigurable mechanism to switch between the services. It is comparatively difficult to make microstrip antenna broadband than to make it reconfigurable. Reconfigurable antenna implementation can be separated into four main processes: Antenna design, simulation, optimization and fabrication. The objective of this paper is to provide an insight into the techniques that have been used to implement reconfigurable antennas and antennas based on these systems are also studied.

Keywords : reconfigurable antenna, implementation techniques, resonant frequency.