

A CLASS OF MULTI-ARM MONOPOLE ANTENNAS FOR MULTI-BAND WIRELESS/MOBILE APPLICATIONS

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This paper presents several multi-band, compact, lightweight and low-cost monopole antennas suitable for applications in the wireless local area network (WLAN) and mobile communications. These antennas are two-arm microstrip-fed antenna, two-arm antenna fed by a co-planar waveguide (CPW) line, three-arm microstrip-fed antenna and a diversity antenna pair composed of two two-arm microstrip-fed antennas. Antennas to cover 1.8, 2.4, 4.9, 5.2 and 5.8 GHz bands have been successfully designed. Theoretical and measured results are presented.