

# Studies on Dual-Band Printed Antennas with Compact Size

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## ABSTRACT

This thesis types of ARC feed for dual-band printed-slot antenna construction designs. By embedding a meander grounded strip into the slot of an annular-ring slot antenna with arc fed, three resonant modes with different electric current distributions in the slot region are excited at distinct frequency bands. The first resonant-band center frequency was much lowered from that of a conventional microstripline-fed annular-ring slot antenna because the routes of the equivalent magnetic current distributions in the slot region were lengthened by the embedded strip.

Keywords : printed slot antennas, dual-frequency operations, compact

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