

Optimisation technique for mobile handsets antennas

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Abstract

This paper introduces a novel optimisation technique that combines a genetic algorithm (GA) with CST Microwave Studio. The capabilities of the reported optimisation technique have been shown through a design example of a dual-band PIFA handset antenna. The optimum solution obtained provides a low cost and small in size dual-band PIFA suitable for personal communication handsets at GSM-900 MHz and DCS-1800 MHz.