

This paper presents a new approach for the design of a multi-wideband microstrip-patch antenna. The radiating elements in this antenna are composed of rectangular slots following a Chebyshev distribution of order 10 around a center rectangular slot, and an additional triangular slot. These slots are engraved in the rectangular and triangular patch, joined together in one structure, and fed by one probe feed. A sample antenna was analyzed, simulated, fabricated, and tested. There was good agreement between the computed and test results. The new antenna can be used for several applications, especially in the GSM domain, and for Wi-Fi, Bluetooth, and several other applications, as detailed in this paper.