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This collection of studies introduces several breakthroughs in antenna design and technology, focusing on advancements for future-generation mobile networks, wireless applications, and mm-wave 5G IoT applications. Innovations include a super-wideband monopole antenna with extensive frequency coverage, a dual-band UWB notch antenna with unique design features for wide bandwidth, and a compact MIMO configuration that enhances gain, efficiency, and isolation. Additional highlights include a UWB MIMO antenna system offering pattern and polarization diversity, improvements in OFDM systems through efficient interleavers, a broadband optical nano-antenna designed for nano-photonic applications with high gain and directional radiation, and a wideband antenna with triple notch bands to minimize interference. Lastly, a modified Franklin array antenna is optimized for 5G applications, providing wideband operation and improved performance. These advancements collectively signify major steps forward in antenna technology, emphasizing performance, compactness, and application-specific optimizations.



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