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Microstrip Patch Antenna for 5G Applications

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Abstract: *The rapid advancement of 5G technology has created an increasing demand for efficient, compact, and high-performance antennas that can support higher frequencies and enable faster, more reliable wireless communication. Among various antenna types, the microstrip patch antenna has emerged as a promising solution for 5G applications due to its low-profile design, ease of integration, and cost- effective manufacturing process. This project explores the design, analysis, and performance of microstrip patch antennas tailored for 5G communication, particularly focusing on their ability to operate in both sub-6 GHz and millimeter-wave frequency bands.*

Keywords: *5G technology*

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